

ANNUAL SUMMARY  
OF  
BIRTHS, DEATHS, AND CAUSES OF DEATH  
IN  
LONDON,  
AND OTHER LARGE CITIES,  
1878.

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PUBLISHED BY THE AUTHORITY OF THE REGISTRAR GENERAL OF  
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1879.



# LONDON.

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**AREA.**—The Area of London (the registration division so called) is 78,080 acres, or 122 square miles, including 2718 acres of the Thames ; this is equal to 31,597 hectares, or 316 square kilometers. The length of the streets and roads is about 1500 miles, and their area nearly 12 square miles. The Area of London being 122 square miles is equal to a square of about 11 miles to the side. Assuming that it is crossed by straight roads at equal intervals, there would be 136 such roads, each 11 miles long and 142 yards apart. The Sewers have a length of about 2000 miles, and are equal to 182 sewers 11 miles in length, on an average 106 yards apart.

**ELEVATION.**—The population of London resides at a mean elevation of 39 feet (11·9 metres) above Trinity high-water mark ; the elevation varying from 11 feet (3·4 metres) below high-water mark in Plumstead Marshes, to 429 feet (131 metres) above high-water mark in Hampstead.

**HOUSES.**—At the Census in 1871 there were within this area 417,767 inhabited houses, containing an average of 7·8 persons to a house, exactly corresponding with the proportion in 1861.

**ANNUAL RATEABLE VALUE.**—The Annual Rateable Value of Property in the Metropolis, in December 1878, as assessed in accordance with the Valuation (Metropolis) Act, 1869 = £23,960,109.\* For Annual Rateable Value in 1871, see Table 6.

**DENSITY (1871).**—103 persons to a hectare; 42 persons to an acre; 26,674 to a square mile.

**ANNUAL RATE OF INCREASE OF POPULATION PER CENT.** .  $\left\{ \begin{array}{ll} 1851-61 . & 1\cdot73 \\ 1861-71 . & 1\cdot50 \end{array} \right.$

## 1878.

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POPULATION . . . . . (Estimated to the middle of the year.)	$\left\{ \begin{array}{ll} \text{Males} & 1,674,351 \\ \text{Females} & 1,902,953 \end{array} \right.$	TOTAL . . . . .	3,577,304
BIRTHS . . . . .	$\left\{ \begin{array}{ll} \text{Males} & 65,944 \\ \text{Females} & 63,240 \end{array} \right.$	TOTAL . . . . .	129,184
ANNUAL RATE OF BIRTHS PER 1000 OF THE POPULATION . . . . .			36·2
DEATHS . . . . .	$\left\{ \begin{array}{ll} \text{Males} & 42,865 \\ \text{Females} & 40,830 \end{array} \right.$	TOTAL . . . . .	83,695
ANNUAL RATE OF MORTALITY PER 1000 . . . . .	$\left\{ \begin{array}{ll} \text{Males} & 25\cdot6 \\ \text{Females} & 24\cdot4 \end{array} \right.$	TOTAL . . . . .	23·5
EXCESS OF REGISTERED BIRTHS OVER DEATHS . . . . .			45,489
ESTIMATED INCREASE OF POPULATION . . . . .			43,693

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\* This amount represents the Annual Rateable Value of Property within the District of the Metropolitan Board of Works, as defined by the Metropolis Local Management Act, 1855 (18 & 19 Vict. c. 120.) The District of the Metropolitan Board of Works is identical with that adopted for Poor Law and Registration purposes, except that the hamlet of Penge, in Croydon District, is situated within the District of the Metropolitan Board of Works, but is excluded from Registration London; and the hamlet of Mottingham, in Lewisham District, is included with Registration London, but excluded from the District of the Metropolitan Board.



# ANNUAL SUMMARY.

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## LONDON, AND OTHER LARGE CITIES, 1878.

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*General Register Office, Somerset House,  
7th April 1879.*

LONDON is the greatest city in the world. Its population exceeds three millions and a half, or if we add the population of its suburbs in the Outer Ring, the total population is four millions and a half. Its population approaches the aggregate population of 22 other large towns of the United Kingdom. It nearly equals the aggregate population of Paris, Berlin, and Vienna; or with the suburbs it equals the population of the capitals of France, Prussia, Austria, and Russia.

The area of this great city is 122 square miles, or a square of a little more than 11 miles to the side; so the density of population is 29,322 people to a square mile, and the proximity of the population is 11·04 yards; or the people are at a mean distance of 11·04 yards from each other.

The low rate of mortality in London, if we take its density into consideration, is still more striking than its magnitude. With a density of 29,322 persons to the square mile, the mortality should be 35·2 per 1000;\* were not special systems of

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\* The mortality increases with density of population in 593 districts of England and Wales; and the law of increase is such, that for every increase of density the mortality increases nearly as the 8th root of the density. Thus, the mortality being  $m$  at any known density the mortality at any other density ( $m'$ ) will be  $m' = m \left( \frac{d'}{d} \right)^{\cdot 11998}$  or  $d^{\cdot 12} : d'^{\cdot 12} :: m : m'$ . Thus in 345 districts with a density of 186 persons to a square mile the mortality was 19·16: what should then the mortality be, according to this law, of London, which had, in 1878, 29322 persons to a square mile?

$$186^{\cdot 12} : 29322^{\cdot 12} :: 19\cdot 16 = \left( \frac{29322}{186} \right)^{\cdot 12} \times 19\cdot 16 = 35\cdot 2.$$

This does not imply more than that in the present state of impurity of atmosphere in English districts the mortality increases at this rate. We can conceive a state of things in which the population would be as dense as the population is in a ship, or as it is in a well organised barrack, without any sensible increase of mortality. Our calculation shows that at the density prevalent in London the mortality would at the usual law be 35; so London is healthier than the majority of English towns; so is Manchester, for it should experience a mortality of 38, whereas the actual mortality was 28. It is still much less healthy than London, for London is 23, Manchester is 28 per 1000.



drainage and cleanliness in use in London, by which the mortality in the years 1874-8 is reduced to 22·8.

The consequence is that the deaths are so low in London as 83,695, and the births being 129,184, the registered births exceed the deaths by 45,489, which exceeds the estimated increase of population (43,693) by 1796. There is a continued influx of new comers into London, but the facts show that the numbers who leave London as emigrants exceed the numbers of its immigrants. There is an incessant interchange of persons born in and out of London. In the 17th century the deaths equalled the births in number.

The density of the population is continually increasing; thus, while in 1842 there were 16,367 persons to a square mile, there were 28,602 to a square mile in 1876; and that alone would cause an increase of mortality which would, according to the law that has been deduced from the returns for all England, raise the mortality from 24·5 in 1840-4 to 26·2 in 1874-8. Thus, the deaths should have been at this rate 91,423 a year in the five years 1874-8, whereas they actually were 79,245. The reduction in the rate of mortality saved 12,178 lives annually in the five years in London. This may be fairly ascribed to sanitary improvements. In 1840-5 the water supplied to London was taken partly from the Thames at Hungerford Bridge and Battersea, where it was mixed with the sewage of London, while in 1874-8 it was taken from the Lea, the New River, and the Thames higher up the river beyond the London sewer contamination. The great system of sewerage has been carried out in its main outline, and the whole of South London has been drained. There are health officers appointed in every district of London, who have made many useful suggestions which have been partially carried out. All this has reduced the mortality from 26·2, the corrected rate, as has been shown the increase of density would imply, to 22·8 per 1000; so 12,178 lives are saved annually. Much has been really done, and still more remains to be done. The waters of the Thames partially contaminated are still supplied to London, and the branch sewers are still imperfect, while the sewers communicate in many cases with the interior of the houses, so that much remains to be done, which may be pointed out by skilful health officers acting under one head.

We have 53 districts in England and Wales which experienced a mortality of 16·75 per 1000 in the 10 years 1861-70; in the years 1849-53 the mortality was at the rate of 17·53 in 63 districts that were taken as the basis of the Healthy Life Table, which makes the mean duration of life 49·0 years; and this implies a mean corrected annual rate of mortality of 20·4. Upon this ground we have laid it down as a principle that the mortality of healthy districts should not exceed 17 per 1000. Now we see how much has to be done in London: the mortality was 25, it has been reduced to 23, and 6 per 1000 remains to be reduced before 17 is attained. It is possible that with a proximity so small as is experienced in London, we cannot hope to attain the ideal standard of 17, yet 20 is not beyond our reach. The mortality has been reduced from 25 to 23; and when many known imperfections in our sanitary conditions are removed, we may hope to see the mortality reduced to 20 per 1000. The mortality of none of our towns should now exceed 20 per 1000.

London is governed by the Corporation of the City of London, and by the Metropolitan Board of Works, and the Outer Ring by Boards of Guardians. The jurisdiction of the Lord Mayor extends over a square mile of territory, on which 74,897 inhabitants slept on the Census night of 1871. The Metropolitan Board of Works had (including the City) charge of 3,266,987 people at the same date; 631,381 were in the Outer Ring within the Metropolitan Police District, but without the advantages of municipal institutions.



In the absence of municipal arrangements for supplying London with water and gas, those two necessities of life are supplied by gas and water companies at great cost, as is shown in the annexed table.\* The paid up capital of the gas and water companies was 23,860,004*l.*, which might be borrowed by the Metropolitan Board of Works for 954,400*l.* a year, whereas the net revenue of the companies was 1,882,765*l.* The companies, therefore, in addition to the interest of 954,400*l.*, gain 928,365*l.* from the ratepayers of the metropolis. Thus the gas shareholders gain 9.253*l.* per cent. for their stock, the water shareholders gain 6.552*l.* per cent. for their stock. This is partly accounted for by the speculative nature of their investments. The New River obtained no dividend at all for the first 20 years, and several of the other companies obtained little interest in the first years of their existence. Then there is risk that the dividends will only be realised for a limited number of years; gas might be superseded in a few years, and in a few years Thames water might be superseded by a purer water, in which case the dividends might cease. The capital embarked in the production of gas, and in the supply of water is at risk, and it is on that ground that so much more than 4 per cent. has hitherto been charged. The shareholders have been paid for the risk their capital incurred.

Should the electric light be utilised it will naturally be done by the Metropolitan Board of Works, and should London be supplied by purer water on the plan proposed by Mr. Bateman, or on the plan advocated by the Metropolitan Board of Works, it will be right to offer some compensation to the gas and water companies for the services they have rendered. “If no waterworks existed in London, 100 million gallons of fresh water a day could be supplied from Wales for an annual expenditure of 470,000*l.*, covering interest of capital (4 per cent. on 8,000,000*l.*) and working expenses at an annual charge of 150,000*l.*” This estimate by Mr. Bateman, who constructed the Manchester waterworks, and the waterworks of Glasgow, which is supplied from Loch Katrine, is satisfactory proof that London could be supplied on the constant system, by which fires are so readily extinguished, for 470,000*l.*, whereas 1,283,548*l.* is now paid for waters polluted more or less by the sewage of innumerable towns.† No doubt the chalk stratum round London contains a vast store of water, which would furnish a large portion of the supply required.

Several town councils have purchased the rights of the gas companies and of the water companies and have acquired the power to supply their constituents with those two necessities of life. They have thus far converted their municipalities into co-operative societies; and there appears to be no reason why they should not embrace the supply of other articles within their functions. Thus Mr. Chamberlain,

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\* LONDON WATER AND GAS COMPANIES.

TOTAL PAID UP CAPITAL (including Amount received on Calls paid in advance), REVENUE, and EXPENDITURE of the METROPOLITAN GAS and WATER COMPANIES for the last financial year ended prior to 1st April 1878.

	Total paid up Capital (including Calls paid in advance).	Total Gross Revenue.	Revenue from Gas, Meter, and Water Rents.	Total Working Expenditure.
GAS COMPANIES -	£ 11,825,750	£ 3,536,794	£ 2,756,750	£ 2,442,501
WATER COMPANIES -	12,034,254	1,297,874	1,283,548	509,402

† See Cholera Report, Appendix to 29th Report of Registrar General, pp. xl. to xlv.



who induced the town council of Birmingham to buy up the Birmingham Water Company with the best effect, has proposed to the same body to buy up the public houses ; this would enable them to regulate the sale of alcoholic drinks, which would become at the same time a source of profit to the town. There can be no doubt of the great evils of the present public house system, which has made so strong an impression on the Committee of the House of Lords on Intemperance, that they have unanimously reported that “legislative facilities should be afforded “ for the local adoption of the Gothenburg and of Mr. Chamberlain’s schemes, “ or of some modification of them.”\* The municipalities could sell liquors free from adulteration, and could exercise some control over the drinking to excess, and in both ways would exercise a salutary influence on the health of the population.

Dr. Frankland thus reports on the water supplied to London during the year 1878:—“ London (inner circle) was supplied during this year by eight companies, “ with a daily average of 129,657,848 gallons of water. Of these 65,063,839 gallons “ were often much polluted with organic matters of animal origin ; 56,501,022 “ were occasionally so polluted ; whilst only 8,092,987 gallons were uniformly deli- “ vered in a pure and wholesome condition. The temperature of the Thames “ water varied from 4°·3 C. (39°·7 Fahr.) in January and December to 20°·3 C. “ (68°·5 Fahr.) in July. The higher temperature just mentioned causes the water “ to taste vapid and disagreeable. The temperature of the Lea water ranged from “ 3°·8 C. (38°·8 Fahr.) in January and December to 19°·8 C. (67°·6 Fahr.) in “ July, when this water was also rendered unpalatable. The deep well water “ delivered by the Kent and Colne Valley Companies showed a minimum temperature “ of 7°·2 C. (44°·9 Fahr.) in February, and a maximum of 13°·4 C. (56°·1 Fahr.) “ in July, August, and September. The temperature of this water even in the “ hottest weather never interfered with its palatability. There was more organic “ impurity in the Thames and Lea waters in 1878 than in previous years. The “ proportion in 100,000 parts of the water was one in the Kent, Colne Valley, and “ the Tottenham water ; 3 in the Lea water, and 4 in the Thames water.”

The meteorology of the year presented some peculiarities. The mean temperature of each of the first three quarters of the year was somewhat above the average, while that of the last three months was below the average ; so that the mean temperature of the year was sensibly the same as in the previous 37 years. The humidity was of the average.

There was a great downfall of rain in the spring quarter, or in April, May, and June, amounting to 13·2 inches, which was 7·6 inches above the average. The rain in the other quarters was below the average ; but the rain-fall of the year was 29·2 inches, which is 3·8 inches above the average.

The deaths in the 52 weeks were 83,695, which were 1000 in excess of the average. 42,099 were at ages under 20 years, of which 21,176 were of children under one year of age. The annual rate of mortality was 23·5 ; and in the last five years 22·8. The highest rate observed during 39 years was 30·1 per 1000 in 1849, when the great cholera epidemic prevailed ; in the second epidemic of 1854 the mortality was 29·4. The lowest rate observed was 21·0 in 1850, the next lowest was 21·5 in the year 1872. The mortality in the year 1878 was 21·6 in the West Districts, 22·3 in the North Districts, 24·9 in the Central Districts, 24·9 in the East Districts, and 24·2 in the South Districts. The mean rates for 39 years were 24·0 for London, 22·4 for the West Districts, 22·7 for the North Districts, 25·2 for the Central Districts, 25·8 for the East Districts, and 24·2 for the South Districts.

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\* Report from the Select Committee of the House of Lords on Intemperance, Session 1878-9.



RATES OF MORTALITY in LONDON PER 1000 LIVING at FIVE GROUPS OF AGES in each  
of the Twelve Years 1867-78.

YEARS.	ALL AGES.	0-5	5-20	20-40	40-60	60 and upwards.
1867	23·0	75·6	5·0	9·7	21·0	74·9
1868*	23·5	80·6	5·8	9·7	20·9	71·3
1869	24·6	86·0	6·6	9·4	20·9	73·8
1870	24·1	79·5	6·8	9·6	21·0	76·4
1871	24·6	78·6	7·1	11·1	21·6	76·5
1872*	21·5	70·9	4·8	9·0	19·8	68·2
1873	22·5	71·6	4·4	9·1	21·7	82·4
1874	22·6	70·9	5·2	9·2	21·7	78·1
1875	23·8	77·7	5·7	9·2	22·2	78·3
1876*	22·2	72·8	5·0	9·2	21·0	71·6
1877	21·9	69·2	5·3	9·2	20·7	72·0
1878	23·5	78·3	5·4	9·1	21·6	76·4

\* The rates in these years, which were Leap years, have been corrected for the difference between 366 days and the 365 days in an ordinary year.

The above table shows the annual rates of mortality in London, during the twelve years 1867-78, at five groups of ages, per 1000 persons living at each group. Dividing this period into two equal periods of six years, it appears that the rate of mortality at all ages declined from 23·6 in 1867-72, to 22·8 in 1873-8. The largest proportional decline of mortality occurred among children under five years of age; the death-rate at these ages averaged 78·5 per 1000 in the six years 1867-72, but declined to 73·4 in the more recent six years 1873-8. Among those aged 5 to 20 years the rate declined from 6·0 to 5·2 per 1000 in these two periods; and between 20 and 40 years, from 9·8 to 9·2. The rate among persons aged upwards of 40 years appears to be slightly increasing; between 40 and 60 years the rate in the two periods rose from 20·9 to 21·5, while the increase among those aged upwards of 60 years was from 73·5 to 76·5 per 1000.

While the rate of mortality was 23·5 in the year 1878 in Inner London, the rate was only 16·9 in the Outer Ring; or in the Greater London 22·3 per 1000. The density of population was 41·7 persons to an acre in the Inner London, 1·7 in the Outer Ring; or 8·7 persons to an acre in the Greater London.

The causes of death in Inner London include 18,220 by zymotic diseases, 15,509 by constitutional diseases, 37,825 by local diseases, 8695 by developmental diseases, 3310 by violent deaths. Small-pox was fatal to 1416 persons, who at various ages died of that disease in London, whereas only 17 died in 19 country towns. This is in spite of the precautions taken in London, where 897 patients died in small-pox hospitals, which are freely open to all. No doubt great numbers remained who were treated at their own homes, for the deaths at home were 519, and this implies a great number of cases. What would be the result of isolating every case it is impossible to say, but it is evident that partial isolation is only partially successful, for we have 1416 deaths in London from the disease with five hospitals, whereas in the 19 towns with less hospital provision there were only 17 deaths from small-pox. Measles was less fatal than usual; and scarlet fever was much less fatal than usual. Whooping-cough was more than usually fatal; the excess of deaths was 1665. Scurvy and purpura were more than usually prevalent. Of alcoholism 202 persons died, which number is above the average. There was an excessive number of deaths from bronchitis. The deaths from ovarian dropsy were 60, whereas the average annual number of deaths in the previous 10 years was 33.



This is singular, considering that Spencer Wells has shown that ovariotomy can be performed in the great majority of cases with safety. The deaths from childbirth were 255 ; 2916 persons died by accident or negligence, 78 by homicide, 315 by suicide, and one was executed. The number of persons killed in the streets of London was 237 : how, is not stated in three cases, 17 were killed by horses, 12 by carriages, 14 by omnibuses, 10 by tram-cars, 34 by cabs, 73 by vans and waggons, 11 by drays, 63 by carts. It is evident that the greater number of the deaths are caused by bad driving ; for 136 are due to vans, waggons, and carts. Could not some measure be adopted to secure more care on the part of drivers ? Under the system of deodands the waggon, van, or cart which causes the death of a man would be forfeited.

In London 15,502 deaths occurred in the public institutions, 9606 in workhouses, 4549 in general hospitals, 531 in special hospitals, 138 in hospitals for foreigners, 333 in lunatic asylums.

The mortality of 23 great towns of the United Kingdom was 24·4, which is slightly below their mean mortality, 24·8, in the last five years.

The mortality in the five years 1874-8 was below this average in Portsmouth 19·7, Brighton 20·2, Edinburgh 22·2, Plymouth 22·4, London 22·8, Nottingham 22·9, Sunderland 23·0, Bristol 23·1, Norwich 23·1, Leicester 23·3, Wolverhampton 24·0, Hull 24·4, Bradford 24·5, Sheffield 24·6.

The mortality in the five years 1874-8 was above the average in Newcastle-upon-Tyne 24·9, Birmingham 25·2, Leeds 25·3, Oldham 26·1, Glasgow 26·9, Salford 27·1, Dublin 27·3, Liverpool 28·6, Manchester 29·0.

The borough of Liverpool it is understood has made great efforts to improve its sanitary condition in recent years ; and it is gratifying to observe it is now reaping some of the fruits of its exertions. The mortality in the two years 1865-6 was 40·2 ; it has fallen to 27·8 in the four years 1875-8. Cholera caused much of the mortality in the year 1866 ; but the mortality of the district for the ten years 1861-70 was 39 per 1000.

Manchester has nearly the same rate of mortality as Liverpool, but it has made less progress than Liverpool ; both have much to do to overtake London.

AVERAGE ANNUAL DEATH-RATE per 1000 in LONDON, LIVERPOOL, and MANCHESTER.

Years.	No. of Years.	London.	Liverpool.	Manchester.
1865-66	(2)	25·5	40·2	33·5
1867-70	(4)	23·8	31·1	31·8
1871-74	(4)	22·8	30·1	30·2
1875-78	(4)	22·9	27·8	28·6

In 50 large town districts the mortality in the year 1878 was 23·0, while the birth-rate was 37·0. Thus the mortality was lower than in the larger towns. We have laid it down that the mortality of large towns should not exceed 20 per 1000 ; and we find that Dover did not experience a mortality so high ; it was only 16·2 ; Rochester and Chatham lost 18·1 lives, Maidstone 18·4, Hastings 18·9, Cheltenham 19·4, Chester 19·7, Barrow-in-Furness 18·6, Halifax 19·9, Cardiff 19·5, Merthyr Tydfil 19·4. In the following towns the mortality exceeded the average 23·0 ; it was 24·7 in Ipswich, 24·7 in Exeter, Shrewsbury 23·4, Stoke-upon-Trent 24·1, Dudley 27·6, Worcester 24·5, Lincoln 24·0, Stockport 29·7, Macclesfield 24·3, St. Helens 25·1, Wigan 27·9, Bolton 23·3, Bury 29·0, Ashton-under-Lyne 28·1, Rochdale 25·6, Blackburn 30·4, Preston 30·8, Gateshead 25·6,



Tynemouth 24·4, Carlisle 23·2. Most of these towns must be in a most deplorable sanitary condition; their drainage must be excessively defective, and their water supply leaves much to be desired. The authorities incur great responsibility; for every death over 20 per 1000 lies at their door.

The annual rate of mortality in Calcutta was 37·7, in Madras was 48·0, in Alexandria was 45·4. In the 21 European cities the mean mortality was 28·9; while the birth-rate (in 17 European cities) was 35·9.

The following cities experienced a mortality below the average of the 21 towns; Christiania 18·5, Copenhagen 22·0, Stockholm 22·4, Geneva 23·6, Amsterdam 24·4, Paris 24·6, Dresden 24·7, The Hague 26·4, Hamburg 26·9, Rotterdam 27·3, Brussels 28·0, Venice 28·7.

In the following cities the mortality was above the average; Vienna 29·6, Rome 29·8, Berlin 29·9, Breslau 29·9, Turin 31·1, Naples 33·1, Munich 34·6, Trieste 36·2, Buda-Pesth 40·3, St. Petersburg 47·1.

The mortality of New York was 24·8, of Brooklyn 20·1, of Philadelphia 18, and of Montreal 30·9.

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# TABLES.

**TABLE 1.—Population; Persons to an Acre; Births and Deaths; Annual Birth and Death Rates; Mean Temperature and Rainfall, in the Year 1878, in London and Twenty-two other Large Towns of the United Kingdom.**

CITIES AND BOROUGHES.	ESTI- MATED POPU- LATION in the middle of the Year 1878.*	PER- SONS to an Acre. (1878). †	BIRTHS in 52 Weeks ending 28th Dec. 1878.	DEATHS in 52 Weeks ending 28th Dec. 1878.	ANNUAL RATE per 1000 living, of						MEAN TEMPE- RATURE in 52 Weeks ending 28th Dec. 1878.	RAIN- FALL in inches in 52 Weeks ending 28th Dec. 1878.
					BIRTHS in 52 Weeks ending 28th Dec. 1878.	DEATHS in 52 or 53 Weeks in each Year.				DEATHS in 52 Weeks ending 28th Dec. 1878.		
						1874.	1875.	1876.	1877.			
In 23 Towns of the UNITED KINGDOM }	8,373,953	37·9	306,964	203,415	36·8	26·3	26·4	23·7	23·0	24·4	48·4	Inches. 31·11
LONDON - - -	3,577,304	47·5	129,184	83,695	36·2	22·6	23·7	22·3	21·9	23·5	49·6	28·83
BRIGHTON - - -	103,923	44·1	3,070	2,191	29·6	19·8	21·9	19·6	18·7	21·2	49·2	29·39
PORTSMOUTH - - -	129,461	28·9	4,237	2,450	33·0	20·4	19·6	22·1	17·4	19·0	-	-
NORWICH - - -	84,620	11·3	2,831	2,077	33·6	23·6	24·5	21·9	21·0	24·6	49·0	25·02
PLYMOUTH - - -	73,599	52·8	2,338	1,858	31·9	22·4	20·7	22·1	21·6	25·3	50·2	34·55
BRISTOL - - -	206,419	46·4	7,266	4,409	35·3	22·8	26·9	22·6	21·8	21·4	49·3	38·70
WOLVERHAMPTON -	74,240	21·9	2,816	1,724	38·1	24·0	24·8	23·8	24·2	23·3	46·7	34·14
BIRMINGHAM - - -	383,117	45·6	15,983	9,751	41·9	26·9	26·6	22·7	24·2	25·5	-	-
LEICESTER - - -	121,473	38·0	4,765	2,519	39·4	24·2	26·7	23·1	21·5	20·8	48·4	27·32
NOTTINGHAM - - -	165,267	16·6	5,883	3,451	35·7	23·9	26·4	22·0	21·2	21·0	47·8	28·50
LIVERPOOL - - -	532,681	102·2	20,612	15,584	38·8	32·1	27·5	27·6	26·5	29·4	48·5	28·93
MANCHESTER - - -	360,514	84·0	13,710	10,014	38·2	30·5	30·0	29·2	27·4	27·9	-	-
SALFORD - - -	170,251	32·9	7,161	4,336	42·2	27·6	28·7	28·3	25·1	25·6	-	-
OLDHAM - - -	107,366	23·0	4,089	2,759	38·2	27·7	27·0	26·0	24·2	25·8	-	-
BRADFORD - - -	183,088	25·6	6,603	4,144	35·8	27·0	27·2	23·9	21·9	22·5	47·5	35·39
LEEDS - - -	304,948	14·1	11,927	7,244	39·2	28·8	26·5	25·1	22·3	23·8	48·5	30·95
SHEFFIELD - - -	289,537	14·7	10,895	7,208	37·8	26·9	24·9	24·3	21·9	25·0	48·2	32·91
HULL - - -	143,139	39·4	6,004	3,471	42·1	25·6	27·5	22·9	21·7	24·3	47·3	30·43
SUNDERLAND - - -	112,459	34·0	4,646	2,866	41·5	23·5	22·5	21·0	22·6	25·6	48·9	29·95
NEWCASTLE-ON-TYNE	144,570	26·9	5,484	3,423	38·1	29·3	26·1	22·8	22·4	23·8	-	-
EDINBURGH - - -	222,371	53·1	7,357	4,895	33·2	23·6	23·7	20·5	21·1	22·1	47·4	-
GLASGOW - - -	566,940	94·0	20,570	14,077	36·4	31·1	23·6	25·3	24·8	24·9	48·4	-
DUBLIN - - -	314,666	31·3	9,513	9,269	30·3	26·0	27·0	25·8	28·0	29·6	49·4	23·21

NOTE.—The deaths in Birmingham, Manchester, and Bristol include paupers belonging to these cities who died in Workhouses situate outside the Municipal boundaries.

\* The figures in this column, excepting those for Nottingham, Salford, Oldham, and Dublin, are the numbers enumerated at the Census in April 1871, raised to the middle of 1878 by the addition of  $7\frac{1}{2}$  times the annual rate of increase which prevailed between 1861 and 1871. The rate of increase of population in Nottingham, Salford, and Oldham having since 1871 exceeded that which prevailed during the ten years 1861-71, revised estimates have been adopted for those boroughs, based upon special returns of inhabited houses within those boroughs. The population of Dublin is taken as stationary at the number enumerated in April 1871.

† For density of population per acre in the several Registration Districts of London, see Table 17.



TABLE 2.—Mean Temperature, and Annual Rate of Mortality per 1000 Persons living in Twenty Large English Towns, in each Week of 1878.

Number of Week.	WEEKS  ENDING	MEAN TEM- PERATURE AT GREEN- WICH.		ANNUAL RATE OF MORTALITY PER 1000 IN																				
		Fahrenheit.	Centigrade.	TWENTY TOWNS.	LONDON.	BRIGHTON.	PORTSMOUTH.	NORWICH.	PLYMOUTH.	BRISTOL.	WOLVERHAM- TON.	BIRMINGHAM.	LEICESTER.	NOTTINGHAM.	LIVERPOOL.	MANCHESTER.	SALFORD.	OLDHAM.	BRADFORD.	LEEDS.	SHEFFIELD.	HULL.	SUNDERLAND.	NEWCASTLE-ON- TYNE.
				°	°																			
	YEAR (of 52 Weeks ending 23 Dec. 1878.)	49.6	9.78	24.2	23.5	21.2	19.0	24.6	25.3	21.4	23.3	25.5	20.8	21.0	29.4	27.9	25.6	25.8	22.5	23.8	25.0	24.3	25.6	23.8
	March Qr (13 weeks)	41.5	5.28	25.2	25.6	25.5	17.6	26.7	32.6	22.6	25.4	27.4	18.7	22.2	28.8	29.1	24.4	24.9	22.0	20.9	23.5	21.0	24.0	23.2
	June „ (13 weeks)	54.6	12.56	22.7	22.5	18.8	19.8	21.2	24.8	20.3	22.0	21.7	17.5	18.9	27.2	26.9	21.9	24.6	20.9	21.0	24.1	20.1	26.3	22.1
	Sept. „ (13 weeks)	60.8	16.01	23.7	22.1	20.1	20.1	27.7	19.8	18.0	20.5	25.7	26.6	21.8	30.0	26.5	26.6	22.8	21.8	26.5	25.2	31.3	27.9	25.5
	Dec. „ (13 weeks)	41.6	5.34	25.1	23.7	20.2	18.4	22.8	24.1	24.8	25.3	27.4	20.5	21.0	31.4	28.9	29.4	30.9	24.8	26.8	27.1	24.9	24.1	24.2
1	Jan. 5	43.9	6.61	26.2	27.6	27.1	19.8	22.8	29.1	26.3	16.2	29.2	12.9	21.8	32.6	26.3	20.2	25.8	21.4	23.1	22.2	22.6	21.8	22.0
2	„ 12	36.9	2.72	25.2	25.7	28.1	18.9	17.9	36.2	28.8	27.4	28.5	15.9	20.5	32.6	26.5	21.1	28.7	16.6	21.0	17.1	21.1	22.3	25.6
3	„ 19	42.9	6.06	26.2	27.8	23.1	18.5	20.3	26.9	23.0	22.5	27.2	18.9	20.8	27.8	27.5	27.6	25.3	25.4	23.4	23.4	21.9	25.5	22.4
4	„ 26	42.3	5.73	24.7	27.2	26.6	15.3	21.0	26.9	19.2	23.9	24.2	16.8	17.4	27.0	26.3	20.8	17.5	18.6	21.0	23.4	16.0	21.3	24.2
5	Feb. 2	36.2	2.33	24.9	24.8	20.6	16.1	32.7	35.4	18.2	26.7	26.0	22.3	22.7	28.3	32.9	30.0	21.4	21.1	22.9	21.6	22.6	20.4	22.7
6	„ 9	35.1	1.73	26.4	26.4	24.6	18.9	41.3	33.3	19.5	27.4	27.5	22.3	28.1	30.2	31.1	31.0	25.3	23.1	22.8	24.1	18.2	21.3	24.5
7	„ 16	42.6	5.90	28.2	28.1	17.6	16.1	38.8	41.1	29.1	33.0	29.6	20.2	23.4	32.0	39.1	33.1	27.7	23.1	20.7	26.9	21.5	29.2	21.3
8	„ 23	46.5	8.06	25.8	25.6	31.6	23.8	37.0	31.9	22.5	26.7	28.7	15.0	26.2	29.3	29.2	25.1	21.9	24.2	18.8	27.4	25.2	26.5	20.2
9	March 2	48.7	9.28	24.3	23.9	30.1	16.1	29.6	29.8	17.9	27.4	25.5	21.0	22.1	30.4	27.5	25.1	23.8	19.7	18.7	25.2	19.3	28.3	26.7
10	„ 9	46.6	8.12	23.2	23.1	23.1	15.3	25.9	31.9	22.0	21.8	29.0	15.5	16.4	24.7	28.5	23.0	26.2	23.4	19.7	22.9	22.2	14.4	22.0
11	„ 16	40.5	4.72	22.3	22.3	22.1	16.5	18.5	35.4	20.0	21.1	22.7	18.5	18.3	25.1	26.6	18.7	27.2	22.0	18.1	22.7	17.9	24.6	23.5
12	„ 23	43.3	6.28	24.2	24.5	24.6	18.1	22.2	34.0	23.5	23.2	27.1	18.5	25.6	24.4	28.2	19.0	21.9	22.6	22.4	24.9	18.6	26.5	21.3
13	„ 30	35.5	1.95	26.0	25.8	32.1	15.7	19.7	31.9	24.3	27.4	31.3	24.9	24.9	30.2	28.5	21.8	30.6	24.8	19.5	23.6	25.9	29.2	25.6
14	April 6	40.4	4.66	27.5	27.4	22.6	25.4	27.7	28.3	27.3	32.3	25.3	27.1	22.1	31.3	33.7	20.8	28.7	20.9	25.2	28.5	31.0	31.6	28.1
15	„ 13	46.0	7.78	26.2	27.6	29.6	18.9	18.5	39.7	23.3	23.9	22.9	25.3	21.5	28.7	31.3	24.5	21.9	19.2	23.1	25.2	20.4	23.7	19.1
16	„ 20	51.5	10.84	25.2	25.9	20.6	20.2	17.9	34.0	20.0	21.8	24.1	19.3	21.8	31.1	30.1	18.4	38.4	23.7	21.9	22.5	20.1	26.0	22.4
17	„ 27	51.2	10.67	24.2	24.2	19.6	17.3	20.3	33.3	21.2	24.6	26.1	17.6	18.3	29.4	27.6	21.1	30.6	23.4	24.1	22.3	21.5	25.5	20.2
18	May 4	55.3	13.06	22.7	22.5	18.6	21.8	23.4	29.8	20.2	22.5	24.1	15.5	20.8	25.1	23.4	27.0	23.3	19.2	21.7	25.6	18.6	24.1	20.2
19	„ 11	56.7	13.72	21.3	20.2	13.1	25.0	13.0	23.4	21.2	16.2	17.6	15.9	19.6	24.6	30.2	22.4	27.7	26.8	21.9	23.1	15.7	28.3	21.7
20	„ 18	58.0	14.44	21.1	20.1	17.1	19.8	29.0	23.4	18.2	28.1	15.9	13.7	19.3	29.0	25.5	20.8	27.7	18.9	19.7	24.0	16.0	26.0	20.9
21	„ 25	51.8	11.01	20.5	20.1	14.6	16.5	25.9	20.6	20.2	14.8	19.9	16.8	15.5	25.9	24.9	20.8	20.9	16.6	16.3	24.0	18.2	24.6	22.0
22	June 1	52.7	11.50	20.6	20.7	18.6	14.9	19.7	23.4	17.4	16.9	19.2	14.2	20.2	22.6	20.4	23.6	19.4	20.3	19.3	24.3	15.3	26.9	24.9
23	„ 8	57.1	13.95	21.2	21.6	19.6	16.9	19.7	16.3	20.7	19.0	19.6	13.3	14.8	26.0	24.9	18.7	21.4	18.6	18.3	25.4	15.7	19.0	22.4
24	„ 15	55.7	13.17	19.6	19.0	13.6	15.7	16.7	14.9	16.2	23.2	21.9	11.2	17.7	25.2	22.7	22.1	12.1	23.1	17.1	18.9	21.1	26.9	22.7
25	„ 22	59.0	15.00	21.1	20.3	19.1	17.7	22.2	22.7	17.2	22.5	22.3	13.3	13.3	26.0	25.9	22.7	26.2	19.2	19.5	24.3	23.0	27.8	17.0
26	„ 29	70.7	21.50	23.8	22.9	18.1	27.4	22.2	12.0	21.0	20.4	22.6	24.9	20.8	29.1	28.9	22.4	21.4	22.0	25.3	25.4	25.2	31.6	25.6
27	July 6	60.1	15.62	21.5	22.0	12.6	19.8	22.2	14.9	13.9	13.4	16.6	30.1	18.6	24.6	27.8	20.8	19.9	21.4	21.0	22.9	19.7	22.7	15.2
28	„ 13	61.9	16.61	22.2	23.2	16.6	13.3	25.3	18.4	14.2	13.4	16.2	26.6	20.2	28.8	27.2	18.7	22.8	16.1	17.8	21.6	24.1	23.7	20.6
29	„ 20	66.8	19.34	25.2	26.1	18.1	21.8	21.6	22.7	19.0	22.5	22.6	27.1	21.5	28.4	29.8	24.2	22.8	14.7	22.4	27.0	26.2	34.8	20.4
30	„ 27	65.2	18.44	28.1	26.1	20.6	23.4	23.4	26.2	17.9	20.4	24.6	29.6	22.4	37.7	32.3	35.9	24.3	28.5	36.6	33.2	43.7	26.5	26.3
31	August 3	60.5	15.84	28.9	27.4	23.6	22.2	21.6	22.7	17.4	24.6	27.1	36.5	26.8	36.8	30.7	32.8	20.4	24.8	38.9	23.2	137.6	35.3	34.3
32	„ 10	65.9	18.83	27.1	24.7	31.1	23.0	35.1	17.7	22.8	25.3	23.7	24.5	27.5	33.0	29.4	31.0	25.8	22.8	33.0	29.7	45.2	29.2	30.0
33	„ 17	62.2	16.78	25.6	22.1	26.1	21.0	33.9	23.4	23.5	26.0	33.2	27.5	26.2	33.0	26.2	32.2	24.8	28.2	31.0	26.5	34.6	28.8	29.2
34	„ 24	61.5	16.39	24.2	20.9	18.1	21.8	38.8	26.2	18.5	17.6	32.3	33.5	21.5	31.5	24.3	30.0	23.3	18.6	26.7	24.3	40.5	29.2	33.9
35	„ 31	61.8	16.56	22.7	19.9	18.1	23.4	35.8	19.1	18.2	25.3	28.6	24.5	20.8	28.5	24.5	28.2	25.3	20.6	26.2	21.8	31.0		



**TABLE 3.—Deaths in 20 large English Towns in the 52 Weeks ending 28th December 1878.**  
(Estimated aggregate population in middle of 1878, 7,269,976; viz., 3,577,304 in London, and 3,692,672 in the 19 other Towns; see Table 1.)

BOROUGHES, &c.  (Municipal Boundaries for all except LONDON.)	DEATHS from ALL CAUSES.	The DEATHS registered in the 52 Weeks included												
		Deaths of		Deaths from									Inquest Cases.	In Public Institutions.
		Infants under 1 Year of Age.	Persons aged 60 Years and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.	Violence.			
In 20 TOWNS - -	175,174	46,377	33,087	1433	2986	6290	989	7458	3081	9609	6247	10446	25833	
LONDON - - -	83695	21176	16991	1416	1510	1792	558	4446	1361	3651	3310	5587	15381	
BRIGHTON - - -	2191	539	616	-	23	8	6	83	16	108	67	88	324	
PORTSMOUTH - -	2450	638	547	-	47	16	3	99	92	137	50	128	254	
NORWICH - - -	2077	596	631	2	9	11	11	117	24	128	38	107	177	
PLYMOUTH - - -	1858	451	396	-	73	37	29	150	31	81	44	106	111	
BRISTOL - - -	4409	1164	1119	-	51	36	8	66	90	189	141	238	632	
WOLVERHAMPTON -	1724	487	372	-	9	40	5	96	26	97	56	74	288	
BIRMINGHAM - -	9751	2764	1548	5	51	993	81	444	144	675	384	673	1194	
LEICESTER - - -	2519	972	483	-	41	8	5	79	32	300	67	172	258	
NOTTINGHAM - -	3451	1002	810	-	47	73	6	83	62	197	98	218	351	
LIVERPOOL - - -	15584	3970	2139	3	444	947	88	422	359	979	695	785	2223	
MANCHESTER - -	10014	2404	1684	1	169	346	39	224	137	520	343	832	1723	
SALFORD - - -	4336	1324	616	1	75	185	19	133	116	340	116	207	411	
OLDHAM - - -	2759	711	386	1	116	238	25	83	38	92	61	84	163	
BRADFORD - - -	4144	1166	654	1	51	156	20	148	71	190	98	166	295	
LEEDS - - -	7244	2247	1229	-	95	253	15	267	123	624	178	343	555	
SHEFFIELD - - -	7208	1921	1101	1	61	724	33	202	125	453	154	202	600	
HULL - - -	3471	1107	697	1	4	20	6	57	94	415	118	138	336	
SUNDERLAND - -	2866	854	462	1	94	185	14	175	53	196	85	114	203	
NEWCASTLE-ON-TYNE -	3423	884	606	-	16	222	18	84	87	232	144	179	354	

**TABLE 4.—Analysis of the Mortality in 20 large English Towns in the 52 Weeks ending 28th December 1878.**

BOROUGHES, &c.	ANNUAL RATE OF MORTALITY per 1000 living at all Ages.			DEATHS under 1 Year, to 1000 Births Registered.	ANNUAL RATE OF MORTALITY per 1000 living.		PER-CENTAGE, TO TOTAL DEATHS, OF DEATHS REGISTERED	
	ALL CAUSES.	SEVEN ZYMOTIC DISEASES.	VIOLENCE.		Aged 1 to 60 Years.	Aged 60 Years and upwards.	From Certificate of the Coroner. (Inquests.)	In large Public Institutions.
In 20 TOWNS - - -	24.2	4.4	0.86	172	14.5	77.3	6.0	14.7
LONDON - - - -	23.5	4.1	0.93	164	14.1	76.6	6.7	18.4
BRIGHTON - - -	21.2	2.4	0.65	176	11.2	76.4	4.0	14.8
PORTSMOUTH - -	19.0	3.1	0.39	150	10.7	72.0	5.2	10.4
NORWICH - - - -	24.6	3.6	0.45	211	11.5	77.3	5.2	8.5
PLYMOUTH - - -	25.3	5.5	0.60	193	15.5	65.1	5.7	6.0
BRISTOL - - - -	21.4	2.1	0.69	160	11.5	77.4	5.4	14.3
WOLVERHAMPTON -	23.3	3.7	0.76	173	12.8	88.3	4.3	16.7
BIRMINGHAM - -	25.5	6.3	1.01	173	15.5	80.2	6.9	12.2
LEICESTER - - -	20.8	3.8	0.55	204	9.7	63.6	6.8	10.2
NOTTINGHAM - -	21.0	2.8	0.60	170	11.1	67.4	6.3	10.2
LIVERPOOL - - -	29.4	6.1	1.31	193	19.4	84.8	5.0	14.3
MANCHESTER - -	27.9	4.0	0.95	175	18.0	92.5	8.3	17.2
SALFORD - - - -	25.6	5.1	0.68	185	15.4	73.1	4.8	9.5
OLDHAM - - - -	25.8	5.5	0.57	174	16.9	70.0	3.0	5.9
BRADFORD - - -	22.5	3.5	0.53	177	13.7	73.1	4.0	7.1
LEEDS - - - - -	23.8	4.5	0.59	188	13.6	77.0	4.8	7.7
SHEFFIELD - - -	25.0	5.6	0.53	176	15.8	82.1	2.8	8.3
HULL - - - - -	24.3	4.2	0.83	184	12.9	77.0	4.0	9.7
SUNDERLAND - -	25.6	6.4	0.76	184	15.2	73.4	4.0	7.1
NEWCASTLE-ON-TYNE -	23.8	4.6	1.00	161	14.7	77.2	5.2	10.3



**TABLE 5.—LONDON, 1871.** Of the **3,254,260** enumerated Inhabitants, the **Number of each Sex** born in LONDON, and the **Number born elsewhere.**

	MALES.			FEMALES.			EXCESS OF FEMALES.		
	Under 20 Years of Age.	20 Years and upwards.	TOTAL.	TOTAL.	Under 20 Years of Age.	20 Years and upwards.	TOTAL.	Under 20 Years of Age.	20 Years and upwards.
<b>TOTAL INHABITANTS</b>	680,358	842,793	1,523,151	1,731,109	708,690	1,022,419	207,958	28,332	179,626
<b>BORN IN LONDON</b> -	576,659	398,802	975,461	1,080,115	590,370	489,745	104,654	13,711	90,943
<b>BORN OUT OF LONDON</b>	103,699	443,991	547,690	650,994	118,320	532,674	103,304	14,621	88,683

*Note.*—The enumerated Population of London in 1871 included 2,055,576 of both sexes born in London and 1,198,684 elsewhere. Of those *under 20 Years of Age* 1,167,029 were born in London, 222,019 were born elsewhere; of those *aged 20 Years and upwards* 888,547 were born in London, 976,665 were born elsewhere.

**TABLE 6.—Area, Population, Inhabited Houses, Rateable Value of GREATER LONDON, 1871.**

	AREA (including Tidal Water).		Enumerated POPULATION, 1871.	DENSITY OF POPULA- TION in 1871.		INHABITED HOUSES, 1871.	RATEABLE VALUE, 1871.*
	In Acres.	In Square Miles.		Persons to an Acre.	Persons to a Square Mile.		
<b>GREATER LONDON</b> -	446,494	698	3,885,641	8·7	5,567	528,804	£ 23,177,380
<b>INNER LONDON</b> -	78,080	122	3,254,260	41·7	26,674	417,767	19,796,257
<b>OUTER RING</b> - -	368,414	576	631,381	1·7	1,096	111,037	3,381,123

\* The Rateable Value of London in 1871 was furnished by the Local Government Board.

**TABLE 7.—Population; Births and Deaths in GREATER LONDON (THE METROPOLITAN AND CITY POLICE DISTRICTS), during the 52 Weeks ending 28th December 1878.**

—	Estimated POPULATION, middle of 1878.	ANNUAL RATE per 1000 living.			TOTAL BIRTHS.	TOTAL DEATHS.	The DEATHS registered in the 52 Weeks include										Deaths in Public Institutions.
		Births.	Deaths.	Seven Zymotic Diseases.			Deaths of		Deaths from								
							Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.		
GREATER } LONDON }	4,450,015	35·4	22·3	3·8	156,988	98,882	25,087	20,692	1567	1731	2100	723	4973	1567	4357	17192	
INNER LONDON	3,577,304	36·2	23·5	4·1	129,184	83,695	21,176	16,991	1416	1510	1792	558	4446	1361	3651	15381	
OUTER RING -	872,711*	32·0	17·5†	2·6	27,804	15,187	3,891	3,701	151	221	308	165	527	206	706	1811	

\* The Population of the Outer Ring is estimated by deducting the estimated Population of Inner London from that of Greater London calculated in accordance with the rate of increase which prevailed between 1861 and 1871.

† The Death-rate in the Outer Ring corrected for the deaths in the three Middlesex County Lunatic Asylums (see Table 9.) was equal to 16·9 per 1000.



TABLE 8.—Population; Births and Deaths during 1878 in Fifty other large Town Districts.

District Numbers.	TOWNS.	ESTIMATED POPULATION in the middle of the Year 1878.*	REGISTERED during the Year 1878.		ANNUAL RATE to 1000 living during the Year 1878.			DEATHS under One Year to 1000 Births registered.	DISTRICTS and SUB-DISTRICTS, taken as approximately representing the several Towns.
			Births.	Deaths.	Births.	Deaths.	Seven Zymotic Diseases.		
	TOTAL of 50 TOWNS -	2,862,395	105,922	65,758	37.0	23.0	3.9	170	{ Total of the under-mentioned Districts and Sub-districts.
	II.—SOUTH EASTERN COS.								
45	Rochester and Chatham P -	65,118	1983	1178	30.5	18.1	1.7	143	Entire District of Medway.
49	Maidstone - - - M† -	28,773	951	523	33.1	18.4	1.7	176	West and East Sub-districts.
63	Dover - - - M -	38,181	1187	617	31.1	16.2	1.5	127	Entire District. [Sub-district]
67	Hastings - - - M† -	33,727	1207	731	31.2	18.9	1.9	125	All Saints and St. Mary-in-the-Castle
96	Southampton - - M† -	51,727	1753	1097	33.9	21.2	2.3	132	Entire District.
118	Reading - - - M† -	40,065	1499	858	37.4	21.4	3.5	164	Entire District.
	III.—SOUTH MIDLAND COS.								
149	Oxford - - - M -	43,567	1438	968	33.0	22.2	3.1	171	{ Entire District, and St. Clement's Sub-district of Headington.
159	Northampton - - M† -	55,906	2179	1287	39.0	23.0	4.8	196	St. Giles & All Saints Sub-districts
178	Cambridge - - - M -	33,097	1036	691	31.3	20.9	2.4	181	Entire District.
	IV.—EASTERN COUNTIES.								
195	Colchester - - - M -	28,346	902	580	31.8	20.5	2.6	161	Entire District.
213	Ipswich - - - M -	46,835	1591	1155	34.0	24.7	3.7	179	Entire District.
219	Yarmouth - - - M† -	49,675	1599	1041	32.2	21.0	3.0	194	{ Entire District and Gorleston Sub-district of Mutford.
	V.—SOUTH WESTERN COS.								
272	Exeter - - - M† -	35,327	1088	873	30.8	24.7	4.2	193	Entire District.
279	Devonport - - - M -	49,449	1535	1073	31.0	21.7	4.0	148	Entire District of Stoke Damerel.
317	Bath - - - M† -	54,572	1382	1205	25.3	22.1	1.7	150	{ Bathwick, Abbey, Lyncombe, Wootton Bassett, and Lansdown Sub-districts.
	VI.—WEST MIDLAND COS.								
335	Cheltenham - - - M† -	43,618	1119	846	25.7	19.4	3.0	145	Cheltenham Sub-district.
351	Shrewsbury - - - M† -	28,368	874	664	30.8	23.4	2.4	133	St. Mary & St. Chad Sub-districts of Achan.
364	Stoke-upon-Trent - P -	163,632	6761	4060	40.1	24.1	4.0	191	{ Entire Dis. of Stoke-on-Trent & Tunstall and Burslem Sub-dis. of Wolstanton.
373	Walsall - - - M† -	56,798	2345	1243	41.3	21.9	4.9	158	Bloxwich & Walsall Sub-districts.
374	West Bromwich - Impt. D† -	52,911	2374	1218	44.9	23.0	5.1	159	South-west and North-east Sub-districts.
375	Dudley - - - M† -	48,779	2029	1346	41.6	27.6	8.2	185	Dudley Sub-district.
380	Worcester - - - M -	33,507	1069	822	31.9	24.5	3.2	196	Entire District.
393	Coventry - - - M -	41,623	1549	878	37.2	21.1	3.2	147	Entire District.
	VII.—NORTH MIDLAND COS.								
421	Lincoln - - - M† -	36,142	1430	868	39.6	24.0	3.7	197	Home Sub-district.
438	Derby - - - M -	72,044	2938	1534	40.8	21.3	3.3	148	Entire District.
	VIII.—NORTH WESTERN COS.								
445	Stockport - - - M† -	58,928	2464	1748	41.8	29.7	4.3	205	{ Heaton Norris, and Stockport 1st and 2d Sub-districts.
446	Macclesfield - - - M† -	33,734	1106	820	32.8	24.3	2.8	198	{ East and West Macclesfield and Sutton Sub-districts.
452	Chester - - - M† -	50,609	1576	997	31.1	19.7	2.1	139	Castle and Cathedral Sub-districts.
454	Birkenhead - - - M -	76,844	2898	1634	37.7	21.3	4.3	136	Birkenhead and Tranmere Sub-districts.
457	St. Helen's - - - M† -	51,454	2460	1292	47.8	25.1	4.8	164	St. Helen's Sub-district of Prescot.
459	Wigan - - - M† -	44,390	2150	1238	48.4	27.9	4.6	187	Wigan Sub-district.
462	Bolton - - - M† -	90,275	3318	2102	36.8	23.3	4.3	186	{ Little, Eastern, and Western Bolton Sub-districts.
463	Bury - - - M† -	48,060	1890	1396	39.3	29.0	6.6	169	{ South and North Bury, and Elton Sub-districts.
468	Ashton-under-Lyne - M† -	31,441	1271	883	40.4	28.1	2.4	201	Ashton Town Sub-district.
470	Rochdale - - - M† -	80,895	2764	2069	34.2	25.6	4.4	175	{ Castleton Further and Nearer, Spotland and Nearer, Wardleworth, & Wuerdle Sub-districts.
474	Blackburn - - - M† -	87,617	3456	2666	39.4	30.4	8.0	218	Blackburn Sub-district.
476	Preston - - - M† -	87,242	3703	2633	42.4	30.8	6.1	225	{ Trinity, St. Peter, and St. John Sub-districts of Preston.
481a	Barrow-in-Furness - M -	41,331	1921	768	46.5	18.6	3.8	162	Entire District.
	IX.—YORKSHIRE.								
494	Huddersfield - - M† -	81,430	3043	1847	37.4	22.7	3.0	156	{ Almondbury, Kirkheaton, Huddersfield, & Lockwood Sub-districts.
495	Halifax - - - M† -	92,489	2974	1839	32.2	19.9	2.3	153	{ Southowram, Halifax, and Northowram Sub-districts.
515	York - - - M† -	60,333	2194	1387	36.4	23.0	2.9	171	{ Bootham, Micklegate, and Walmgate Sub-districts.
532a	Middlesbrough - - M† -	57,707	2276	1152	39.4	20.0	4.5	158	Middlesbrough Sub-district.
	X.—NORTHERN COUNTIES.								
551	South Shields - - M -	108,755	4053	2359	37.3	21.7	6.2	163	Entire District.
552	Gateshead - - - M† -	62,896	2652	1613	42.2	25.6	6.7	170	Gateshead Sub-district.
554	Tynemouth - - - M† -	44,914	1702	1096	37.9	24.4	5.2	162	North Shields & Tynemouth Sub-districts.
569	Carlisle - - - M† -	35,449	1393	823	39.3	23.2	2.6	169	St. Cuthbert & St. Mary Sub-districts.
	XI.—MONMOUTHSH. & WALES.								
582	Newport (Monmouth) M† -	34,240	1288	735	37.6	21.5	3.2	170	Newport Sub-district.
583	Cardiff - - - M† -	82,222	3145	1605	38.3	19.5	2.3	162	Cardiff Sub-district.
585	Merthyr Tydfil - - P -	101,147	3173	1959	31.4	19.4	1.7	145	{ Lower and Upper Merthyr Tydfil, and Aberdare Sub-districts.
588	Swansea - - - M -	76,181	3234	1686	42.5	22.1	3.2	155	{ Llangafelach, Swansea, and Llangsamlet Sub-districts.

NOTE.—The letter M or P affixed to the name of each Town denotes whether the limits, which the Districts or Sub-districts named in the last column approximately represent, are Municipal or Parliamentary. Impt. D. signifies an Improvement District.

\* For method of framing these estimates see note \* to Table 1. As the population of Devonport, Macclesfield, and Ashton-under-Lyne declined between 1861 and 1871, the numbers for these towns are estimated to have remained stationary since 1871. The estimates of the present population of Dudley, Coventry, Wigan, Barrow-in-Furness, and Middlesbrough have been based upon local information as to the increase of the inhabited houses in these boroughs.

† The rates of mortality for these towns have been corrected by the exclusion of a proportional number of deaths occurring in County Hospitals and Lunatic Asylums, situate within the Districts or Sub-districts here taken as representing the town, or by the exclusion or addition of a proportion of the deaths in Union Workhouses in cases where only a portion of the Union is embraced by the area taken or where the Workhouse is situated outside that area.



TABLE 9.—LONDON—OUTER RING. Population; Births; Deaths from All Causes, and from Seven Zymotic Diseases; and the Annual Rate of Mortality, during the 52 Weeks ending 28th December 1878.

DISTRICTS AND SUB-DISTRICTS.	ESTIMATED POPULATION in the middle of the Year 1878.	BIRTHS.	DEATHS.	DEATHS from Seven Zymotic Diseases.	ANNUAL RATE PER 1000 LIVING.		
					Births.	Deaths.	Seven Zymotic Diseases.
LONDON—OUTER RING	872,711*	27,804	15,187	2284	32·0	16·9*	2·6
EPSOM (part of)	30,287	777	600	38	25·8	13·2	1·3
CROYDON and part of GODSTONE	131,569	3392	1771	255	25·9	13·5	1·9
KINGSTON (part of)	75,319	2151	1095	121	28·6	14·6	1·6
RICHMOND	33,711	957	529	57	28·5	15·7	1·7
BROMLEY (part of)	42,978	1330	582	81	31·0	18·6	1·9
BEXLEY	26,679	790	347	44	29·7	13·1	1·7
STAINES	24,308	730	361	46	30·1	15·0	1·9
UXBRIDGE	27,836	793	567	39	28·6	15·1	1·4
BRENTFORD	94,337	2927	1648	284	31·1	17·7	3·0
HENDON and BUSHEY	68,021	1798	961	143	26·5	14·3	2·1
BARNET and part of HATFIELD	31,722	916	736	81	29·0	16·4	2·6
EDMONTON	111,689	3878	2224	369	34·8	20·2	3·3
WEST HAM and part of CHIGWELL	157,237	6615	3379	668	42·2	21·6	4·3
ROMFORD (part of)	17,018	750	387	58	44·2	22·8	3·4

\* In estimating the population of these Districts, upon which the birth and death-rates have been calculated, it has been assumed that the rate of increase in Greater London since 1871 has been the same as that which prevailed between 1861 and 1871; the estimate for the Outer Ring is obtained by the deduction of the estimated population of Inner London from that of Greater London. The estimates for the suburban districts have been adjusted to cast to the estimated total of the population of the Outer Ring, obtained in the manner above described. In calculating the rates of mortality for the above Table, a proportion of the 574 deaths recorded in the three Middlesex County Lunatic Asylums, situated in the Districts of Epsom, Uxbridge, and Barnet, has been excluded as belonging to the Middlesex portion of Registration or Inner London, and the remainder distributed among the Middlesex Districts in the Outer Ring.

TABLE 10.—Births and Deaths in 1878 in 30 Foreign Cities.

CITIES.	AREA in Square Kilo-meters.	POPULATION (enumerated or estimated).	BIRTHS. Exclusive of Stillborn.	DEATHS.	ANNUAL RATE per 1000 Persons living.		DEATHS FROM EPIDEMIC DISEASES.
					Births.	Deaths.	
CALCUTTA	-	429,535	-	16203	-	37·7	Small-pox 1489; fevers 4499.
BOMBAY	48·2	644,405	13939	26961	21·7	41·8	Measles 754; fevers 7940.
MADRAS	69·9	397,552	14790	19082	37·2	48·0	Small-pox 452; fevers 5007.
PARIS	78·0	1,988,806	-	49007	-	24·6	Diphtheria 1148; typhd. fev. 897.
GENEVA	-	68,792	1749	1623	25·4	23·6	-
BRUSSELS	9·0	175,782	5663	4927	32·2	28·0	Typhoid fever 62.
AMSTERDAM	14·3	302,266	10763	7382	35·6	24·4	Typhus and typhoid fevers 126.
ROTTERDAM	7·2	142,585	5654	3892	39·7	27·3	Scarlet fever 84.
THE HAGUE	22·2	107,896	4136	2852	38·3	26·4	Measles 92.
COPENHAGEN	13·2	222,000	8255	4884	37·2	22·0	Typhoid fever 68; diphtheria 64.
STOCKHOLM	-	152,825	-	3425	-	22·4	Scarlet fever 58.
CHRISTIANIA	-	105,000	4294	1944	40·9	18·5	Diphtheria and croup 40.
ST. PETERSBURGH	-	669,741	-	31555	-	47·1	Small-pox 1074; fevers 5418.
BERLIN	59·2	1,019,620	42656	30505	41·8	29·9	Diphtheria 1212; scarlet fev. 869.
HAMBURG (State)	884·8	406,104	16380	10916	40·3	26·9	Whooping-cough 250.
DRESDEN	-	207,845	7512	5124	36·1	24·7	Diphtheria and croup 217.
BRESLAU	30·2	267,000	10522	7996	39·4	29·9	Scarlet fever 126.
MUNICH	51·6	222,000	9197	7689	41·4	34·6	Diphtheria and croup 297.
VIENNA	55·3	727,271	27665	21513	38·0	29·6	Small-pox 543; diphtheria 980.
BUDA-PESTH	186·1	319,530	13013	12863	40·7	40·3	Small-pox 225; scarlet fever 327.
TRIESTE	-	127,590	-	4622	-	36·2	Small-pox 151.
ROME	14·1	282,214	7669	8413	27·2	29·8	Diphtheria and croup 223.
NAPLES	52·9	457,407	-	15141	-	33·1	Typhus and typhoid fevers 375.
TURIN	17·8	227,843	7032	7095	31·0	31·1	Typhus and typhoid fevers 315.
VENICE	-	139,796	3496	4017	25·0	28·7	Typhoid fever 80; small-pox 52.
ALEXANDRIA	55·9	212,034	8766	9631	41·3	45·4	Whooping-cough 421.
NEW YORK	106·2	1,084,528	-	26899	-	24·8	Scarlet fev. 1073; diphtheria 996.
BROOKLYN	-	549,438	-	11036	-	20·1	Scarlet fever 365; diphtheria 541.
PHILADELPHIA	335·1	876,118	-	15743	-	18·0	Typhoid fev. 404; scarlet fev. 554.
MONTREAL	-	134,200	-	4141	-	30·9	Small-pox 731; diphtheria 197.



TABLE 11.—Marriages, Births, and Deaths in London, in the Forty Years 1839–78.

YEARS.	ESTIMATED POPULATION in the middle of each Period or Year.	MARRIAGES.	BIRTHS.	DEATHS.	PROPORTION TO 1000 PERSONS LIVING.		
					PERSONS MARRIED.	BIRTHS.	DEATHS.
1839-1878	MEAN OF 40 YEARS.						
	2,703,475	27,025	91,794	64,785	20·0	34·0	24·0
	MEANS OF 10 YEARS.						
1840-1849	2,070,893	20,214	65,105	52,370	19·5	31·4	25·3
1850-1859	2,526,477	26,052	84,571	59,711	20·6	33·5	23·7
1860-1869	2,973,072	30,448	104,750	72,102	20·5	35·2	24·2
1870-1878 (9 years)	3,400,138	33,052	121,546	78,052	19·4	35·7	22·9
1840-1844	MEANS OF 5 YEARS.						
	1,957,457	18,679	60,591	48,055	19·1	30·9	24·5
	1845-1849	2,184,329	21,749	69,618	56,685	19·9	31·9
1850-1854	2,416,613	26,100	80,251	58,568	21·6	33·2	24·2
1855-1859	2,636,340	26,004	88,892	60,854	19·7	33·7	23·1
1860-1864	2,860,194	29,041	98,614	68,846	20·3	34·4	24·0
1865-1869	3,085,950	31,854	110,886	75,358	20·6	35·9	24·4
1870-1874	3,311,173	32,411	117,185	76,338	19·6	35·4	23·0
1875-1878 (4 years).	3,511,344	33,854	126,997	80,195	19·3	36·1	22·8
1839	1,845,527	18,384	53,575	46,100	19·9	29·0	25·0
1840*	1,881,596	18,530	56,751	47,156	19·6	30·1	25·0
1841	1,918,060	18,246	58,362	46,292	19·0	30·4	24·1
1842	1,957,939	17,826	61,381	46,242	18·2	31·3	23·6
1843	1,995,872	18,669	62,134	49,477	18·7	31·1	24·8
1844*	2,033,816	20,126	64,329	51,109	19·7	31·5	25·1
1845	2,073,298	21,770	65,884	48,318	21·0	31·8	23·3
1846	2,113,535	22,272	69,882	49,450	21·1	33·1	23·4
1847	2,202,673	21,580	68,331	59,131	19·6	31·0	26·8
1848*	2,244,837	21,006	71,380	57,771	18·7	31·7	25·7
1849	2,287,302	22,119	72,612	68,755	19·3	31·7	30·1
1850	2,330,054	24,354	74,564	48,950	20·9	32·0	21·0
1851	2,373,081	26,084	78,300	55,488	22·0	33·0	23·4
1852*	2,416,367	26,474	81,250	54,638	21·9	33·5	22·5
1853	2,459,899	27,462	82,254	60,069	22·3	33·4	24·4
1854	2,503,662	26,128	84,885	73,697	20·9	33·9	29·4
1855	2,547,639	25,018	85,532	61,942	19·6	33·6	24·3
1856*	2,591,815	26,047	87,430	57,274	20·0	33·6	22·0
1857	2,636,174	25,924	89,577	59,103	19·7	34·0	22·4
1858	2,680,700	25,766	89,012	64,093	19·2	33·2	23·9
1859	2,725,374	27,263	92,909	61,860	20·0	34·1	22·7
1860*	2,770,181	27,987	93,414	62,309	20·2	33·6	22·4
1861	2,815,101	26,876	97,064	65,251	19·1	34·5	23·2
1862	2,860,117	28,839	97,850	67,371	20·2	34·2	23·6
1863	2,905,210	29,963	102,119	71,060	20·6	35·2	24·5
1864*	2,950,361	31,541	102,625	78,238	21·3	34·7	26·4
1865	2,995,551	33,364	106,803	73,531	22·3	35·7	24·5
1866	3,040,761	33,592	108,665	80,453	22·1	35·7	26·5
1867	3,085,971	31,689	112,691	70,924	20·5	36·5	23·0
1868*	3,131,160	30,607	113,937	73,798	19·5	36·3	23·5
1869	3,176,308	30,017	112,332	78,082	18·9	35·4	24·6
1870	3,221,394	30,382	113,902	77,634	18·9	35·4	24·1
1871	3,266,398	31,843	112,617	80,430	19·5	34·5	24·6
1872*	3,311,298	33,155	118,440	71,355	20·0	35·7	21·5
1873	3,356,073	33,425	119,015	75,459	19·9	35·5	22·5
1874	3,400,701	33,248	121,950	76,813	19·6	35·9	22·6
1875	3,445,160	34,072	123,266	81,964	19·8	35·8	23·8
1876*	3,489,428	34,007	127,444	77,671	19·4	36·4	22·2
1877	3,533,484	33,593	128,092	77,449	19·0	36·3	21·9
1878	3,577,304	33,742	129,184	83,695	18·9	36·1	23·4

NOTE.—The area embraced by the Registrar General's Weekly Return, when first published in January 1840, did not include Wandsworth, Lewisham, or Hampstead. Wandsworth was added at the commencement of 1844, and Lewisham and Hampstead at the commencement of 1847. The facts (population, marriages, births, and deaths) for Wandsworth are, however, included in the figures given in the above Table for the years 1840–43, while those for Lewisham and Hampstead are not included prior to 1847. Since the commencement of 1847 the area of the Metropolitan Division, or Registration London, has corresponded with that which is still adopted.

\* The rates in these years, which were leap-years, have been corrected for the difference between 366 days and the 365 days in an ordinary year.



TABLE 12.—Population at different Ages in London, as enumerated at the Censuses of 1851, 1861, and 1871, with the Numbers of Males and Females at the various Ages in 1871.

	ALL AGES.	Under 5 Years.	5—	10—	15—	20—	25—	30—	35—	40—	45—	50—	55—	60—	65—	70—	75—	80—	85—	90—	95—	100 & upwards.
1851.																						
Persons	2,362,236	293,562	243,648	216,369	213,694	241,401	226,632	201,491	164,588	144,361	110,426	97,937	63,903	59,043	36,440	26,168	13,474	6,371	2,025	553	123	27
1861.																						
Persons	2,803,989	362,296	300,259	264,349	259,155	277,389	252,035	224,767	190,517	175,900	134,190	112,728	78,187	71,316	42,936	31,103	16,194	7,527	2,394	595	131	21
1871.																						
Persons	3,254,260	422,629	349,686	309,658	307,075	321,585	296,884	255,089	212,398	192,556	153,728	137,249	93,370	80,895	52,338	37,810	18,710	8,894	2,822	669	139	26
Males	1,523,151	211,032	172,967	153,138	143,221	143,822	135,039	117,966	97,834	89,452	71,604	62,951	42,053	34,814	21,471	14,869	6,803	3,008	894	173	34	6
Females	1,731,109	211,597	176,719	156,520	163,854	177,763	161,845	137,123	114,564	103,104	82,124	74,298	51,317	46,081	30,917	22,941	11,907	5,886	1,928	496	105	20

NOTE.—In England the proportion of Females to Males in the population in 1871 was as 105 to 100; in London it was as 114 to 100, and corresponded with the proportion which prevailed at the 1861 Census. The excess of Females is especially apparent at the ages 15-20, and in each subsequent quinquennium.

TABLE 13.—Births and Deaths in London in the 52 or 53 Weeks of Fifteen Years 1864 to 1878.

YEARS.	1864	1865	1866	1867	1868 (53 weeks)	1869	1870	1871	1872	1873 (53 weeks)	1874	1875	1876	1877	1878
BIRTHS * - - -	102187	106722	107992	112264	115744	111930	113499	112535	117200	121100	121394	122871	127015	127257	129184
DEATHS* - - -	77723	73460	80129	70588	74908	77933	77278	80332	70893	76634	76606	81513	77411	77002	83695
Excess of BIRTHS } over DEATHS - }	24464	33262	27863	41676	40836	33997	36221	32203	46307	44466	44788	41358	49604	50255	45489
BIRTHS - { Males -	52207	54110	54956	57402	58838	56876	58031	57034	59861	61602	61865	62674	64920	65122	65944
BIRTHS - { Females -	49980	52612	53036	54862	56906	55054	55468	55501	57339	59498	59529	60197	62095	62135	63240
DEATHS - { Males -	39353	37569	40978	36276	38390	39812	39730	40685	36401	39001	39144	41917	40001	39806	42865
DEATHS - { Females -	38370	35891	39151	34312	36518	38121	37548	39647	34492	37633	37462	39596	37410	37196	40830
DEATHS in FIVE GROUPS of DISTRICTS:—															
West - - - -	11972	11331	11499	11244	12066	12004	13097	12665	11197	12183	12407	13371	12895	11956	13687
North - - - -	16685	16495	17301	16138	16529	17059	17394	19295	16247	16846	17268	17970	17548	18116	18824
Central - - - -	10857	9968	9770	8804	8983	9149	8748	8291	7682	8210	8118	8099	7362	7239	7367
East - - - -	17172	15881	20574	14818	16067	17506	15813	16702	15175	16702	16671	16887	15976	16396	16878
South - - - -	21037	19785	20985	19584	21263	22215	22226	23379	20592	22693	22142	25186	23630	23295	26939

\* The births and deaths in this Table are compiled from the Weekly Returns, which embrace 364 days, and in three years 371 days; and for this reason the deaths for all the years previously to 1878 differ from the numbers in 29 Districts (see Table 17), which are, except those for 1878, derived from the returns for complete years, from 1st January to 31st December.



TABLE 14.—Annual Rate of Mortality, in the 39 Years 1840–1878, in Five Groups of Metropolitan Districts.

	LONDON.	WEST DISTRICTS.	NORTH DISTRICTS.	CENTRAL DISTRICTS.	EAST DISTRICTS.	SOUTH DISTRICTS.
Area in Square Miles .	122·0	16·8	21·0	3·5	9·3	71·4
Decennial Increase of Po- } pulation per Cent., 1861–71 }	16·1	22·5	21·6 {	–12·8 (decrease). }	11·9	25·2
Enumerated Population, } 1871 . . . . . }	3,254,260	561,359	751,729	334,369	639,111	967,692
Density : Persons } 1841 to an Acre . . . } 1871	25 42	27 52	28 56	172 150	66 107	11 21
YEARS.	MEAN RATE OF MORTALITY PER 1000 IN 39 YEARS.					
1840–1878 . . . . .	24·0	22·4	22·7	25·2	25·8	24·2
	MEANS OF 10 YEARS.					
1840–9 . . . . .	25·3	23·5	23·1	25·1	26·6	26·6
1850–9 . . . . .	23·7	22·3	22·1	24·2	24·9	24·4
1860–9 . . . . .	24·2	22·6	23·4	26·5	26·8	23·2
	MEANS OF 5 YEARS.					
1840–4 . . . . .	24·5	23·3	23·1	24·6	25·5	24·9
1845–9 . . . . .	25·9	23·7	23·1	25·6	27·7	23·2
1850–4 . . . . .	24·2	22·8	22·0	24·3	25·2	25·8
1855–9 . . . . .	23·1	21·9	22·1	24·1	24·6	22·9
1860–4 . . . . .	24·1	22·8	22·9	26·4	25·9	23·3
1865–9 . . . . .	24·4	22·3	23·9	26·5	27·6	23·2
1870–4 . . . . .	23·1	21·4	22·7	25·1	25·1	22·4
1875–8 (4 years) . . . . .	22·9	21·0	22·0	24·8	24·8	22·9
	ANNUAL RATE OF MORTALITY PER 1000.					
1840 . . . . .	25·0	24·1	23·9	24·5	25·7	25·9
1841 . . . . .	24·1	22·4	22·4	25·0	25·1	24·4
1842 . . . . .	23·6	22·6	22·6	23·6	24·4	23·9
1843 . . . . .	24·8	23·3	23·1	25·3	26·4	24·8
1844 . . . . .	25·1	23·9	23·3	24·4	25·9	25·6
1845 . . . . .	23·3	22·5	21·0	24·0	24·6	23·8
1846 . . . . .	23·4	21·6	21·9	22·9	24·1	24·6
1847 . . . . .	26·8	24·5	25·4	27·9	29·4	27·7
1848 . . . . .	25·7	23·6	23·4	25·3	28·7	27·2
1849 . . . . .	30·1	26·1	23·7	27·9	31·8	37·6
1850 . . . . .	21·0	19·6	19·8	21·1	21·7	21·9
1851 . . . . .	23·4	22·0	22·2	24·1	24·3	24·0
1852 . . . . .	22·5	21·5	21·2	23·9	23·3	23·0
1853 . . . . .	24·4	22·3	22·4	25·1	26·5	25·3
1854 . . . . .	29·4	28·5	24·4	27·4	30·0	34·8
1855 . . . . .	24·3	23·0	23·3	25·1	25·5	24·6
1856 . . . . .	22·0	21·5	21·1	23·0	23·3	21·8
1857 . . . . .	22·4	21·2	21·5	23·8	24·6	21·5
1858 . . . . .	23·9	22·4	22·9	24·5	25·8	24·0
1859 . . . . .	22·7	21·4	21·7	24·1	24·0	22·6
1860 . . . . .	22·4	22·2	21·2	23·3	24·1	22·1
1861 . . . . .	23·2	22·1	22·3	25·4	24·0	22·8
1862 . . . . .	23·6	22·0	22·0	26·3	26·0	22·7
1863 . . . . .	24·5	23·0	23·8	27·1	26·5	23·3
1864 . . . . .	26·4	24·6	25·4	30·0	29·0	25·4
1865 . . . . .	24·5	22·7	24·5	27·5	26·4	23·2
1866 . . . . .	26·5	22·6	25·3	27·5	34·0	24·1
1867 . . . . .	23·0	21·8	23·1	25·1	24·2	22·0
1868 . . . . .	23·5	22·3	22·9	25·6	25·6	22·9
1869 . . . . .	24·6	22·2	23·5	26·8	28·0	23·9
1870 . . . . .	24·1	23·8	23·6	26·1	25·1	23·5
1871 . . . . .	24·6	22·4	25·6	25·0	26·1	24·0
1872 . . . . .	21·5	19·6	21·2	23·6	23·6	20·9
1873 . . . . .	22·5	20·5	21·2	25·1	25·2	22·1
1874 . . . . .	22·6	20·9	21·8	25·6	25·4	21·4
1875 . . . . .	23·8	22·2	22·3	26·1	25·6	24·0
1876 . . . . .	22·2	21·0	21·4	24·1	24·0	22·1
1877 . . . . .	21·9	19·2	21·8	24·1	24·5	21·4
1878 . . . . .	23·5	21·6	22·3	24·9	24·9	24·2
Average Number living } to One Annual Death } in 39 years . . . . . }	42	45	44	40	39	41

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the four Censuses of 1841, 1851, 1861, and 1871. The deaths used for the 38 years 1840–77 are for the complete years, while those for 1878 are the numbers registered in the 52 weeks ending 28th December 1878; the 1878 rates have been corrected for the difference between 365·2422 days and the 364 days included in those 52 weeks.

Hampstead and Lewisham did not form part of Registration London prior to 1847. Wandsworth was not included in Registration London until the commencement of 1840, but the facts for that district have been included in calculating the rates in the above Table for the years 1840–43.

Certain alterations affecting the West and Central groups of districts were made in the year 1868, but no corrections have been made in the results given in this Table for any year prior to 1861.



TABLE 15.—Deaths REGISTERED in London at several groups of Ages and from different Causes during the 52 Weeks ending Saturday 28th December 1878.

CAUSES OF DEATH.	Annual Average 1868-77.*	During the 52 Weeks ending Saturday 28th December 1878.							
		DEATHS of Persons of the Ages							
		ALL AGES.	Under 20.			20 and under 40.	40 and under 60.	60 and under 80.	80 Years and upwds.
Mean Temperature - - -	o 49·7	Mean Temp. o 49·7	0-1.	1-5.	5-20.				
<b>ALL CAUSES</b> - - -	82695·2	83,695	21,176	15,224	5699	10,889	13,716	14,065	2926
<b>SPECIFIED CAUSES</b> - - -	82336·0	83,559	21,103	15,216	5695	10,879	13,703	14,039	2924
<b>I. ZYMOTIC DISEASES.</b>									
ORDER 1.									
1. Small-pox - - - - -	1611·9	1416	174	23	429	444	111	24	-
2. Measles - - - - -	1860·3	1510	326	1082	90	8	4	-	-
3. Scarlet Fever - - - - -	3043·7	1792	88	1105	550	41	8	-	-
4. Diphtheria - - - - -	387·9	558	25	297	194	30	9	3	-
5. Quinsy - - - - -	42·7	42	1	20	9	6	2	4	-
6. Croup - - - - -	682·5	600	69	475	56	-	-	-	-
7. Whooping-cough - - - - -	2780·5	4446	1743	2574	127	1	-	1	-
8. Typhus - - - - -	-	150	1	11	40	53	38	9	-
- Enteric or Typhoid Fever - - - - -	1807·9	1010	23	130	385	341	98	32	1
- Simple Continued Fever - - - - -	-	201	8	58	53	32	23	25	2
9. Erysipelas - - - - -	451·0	278	112	7	8	23	47	74	7
10. Puerperal Fever (Metria) - - - - -	279·6	195	-	-	6	172	17	-	-
11. Carbuncle - - - - -	41·0	28	-	-	1	1	13	13	-
12. Influenza - - - - -	26·0	9	3	1	-	1	1	3	-
13. Dysentery - - - - -	89·3	70	14	4	1	13	18	20	-
14. Diarrhœa - - - - -	3731·8	3651	2603	685	30	22	75	184	52
15. Simple Cholera - - - - -	191·0	123	52	25	4	13	18	10	1
16. Ague - - - - -	18·4	8	-	1	1	2	3	1	-
17. Remittent Fever - - - - -	12·7	14	-	-	8	6	-	-	-
18. Rheumatism - - - - -	501·7	432	-	10	85	130	113	89	5
19. Other Zymotic Diseases - - - - -	27·6	34	18	10	2	2	1	1	-
ORDER 2.									
1. Syphilis - - - - -	472·0	461	357	42	3	35	19	5	-
2. Stricture of Urethra - - - - -	71·6	63	-	-	-	11	31	21	-
3. Hydrophobia - - - - -	4·5	5	-	1	2	1	1	-	-
4. Glanders - - - - -	2·6	4	-	-	-	-	4	-	-
ORDER 3.									
1. Privation - - - - -	25·6	30	-	-	1	2	8	19	-
2. Want of Breast-milk - - - - -	561·0	520	510	10	-	-	-	-	-
3. Purpura and Scurvy - - - - -	129·5	170	31	93	13	17	7	7	2
4. Alcoholism - { a Delirium Tremens - - - - -	93·8	70	-	-	-	38	27	4	1
- { b Intemperance - - - - -	83·5	132	-	-	-	48	66	18	-
ORDER 4.									
1. Thrush - - - - -	186·9	172	170	1	-	-	-	1	-
2. Worms, &c. - - - - -	15·5	26	1	3	7	11	3	1	-
<b>II. CONSTITUTIONAL DISEASES.</b>									
ORDER 1.									
1. Gout - - - - -	140·1	135	-	-	-	4	53	74	4
2. Dropsy - - - - -	578·7	364	38	24	25	34	94	128	21
3. Cancer - - - - -	1901·8	2086	1	14	15	223	1023	754	51
4. Cancerum Oris (Noma) - - - - -	19·5	24	7	13	3	1	-	-	-
5. Mortification - - - - -	189·6	188	15	1	1	1	21	108	41
ORDER 2.									
1. Scrofula - - - - -	560·0	687	244	256	103	39	28	17	2
2. Tabes Mesenterica - - - - -	1370·9	1515	842	547	98	17	10	1	-
3. Phthisis - - - - -	9258·7	8885	158	273	845	4329	2789	487	4
4. Hydrocephalus - - - - -	1551·3	1625	580	843	180	16	4	2	-
<b>III. LOCAL DISEASES.</b>									
ORDER 1.									
1. Cephalitis - - - - -	1045·5	1285	339	536	205	90	80	82	3
2. Apoplexy - - - - -	2222·4	2341	94	112	51	168	730	1033	153
3. Paralysis - - - - -	1644·2	1644	7	14	25	111	406	943	138
4. Insanity - - - - -	125·8	106	-	-	-	22	45	36	3
5. Chorea - - - - -	11·6	11	-	2	6	2	1	-	-
6. Epilepsy - - - - -	384·9	358	12	17	46	99	97	78	9
7. Convulsions - - - - -	2808·4	2558	1962	557	29	4	4	2	-
8. Brain Disease, &c. - - - - -	1023·6	1151	57	73	95	148	290	424	64
ORDER 2.									
1. Pericarditis - - - - -	145·2	127	5	8	27	37	25	22	3
2. Aneurism - - - - -	168·0	184	-	-	1	62	93	27	1
3. Heart Disease, &c. - - - - -	4001·8	4394	34	33	330	749	1481	1594	173
ORDER 3.									
1. Laryngitis - - - - -	465·0	476	178	188	28	35	31	16	-
2. Bronchitis - - - - -	9510·1	10879	2623	1995	155	333	1779	3391	603
3. Pleurisy - - - - -	226·1	247	3	26	25	69	74	47	3
4. Pneumonia - - - - -	4363·3	4398	1159	1347	251	537	634	429	41
5. Asthma - - - - -	566·4	482	-	-	-	49	209	208	16
6. Lung Disease, &c. - - - - -	925·2	948	330	172	37	92	135	145	37

\* These averages have been raised rather more than 7 per cent., to allow for increase of population between the middle of the period 1868-77, and the middle of 1878.



TABLE 15 (Continued.)—Deaths REGISTERED in London at several groups of Ages from different Causes during the 52 Weeks ending Saturday 28th December 1878.

CAUSES OF DEATH.	Annual Average 1868-77.*	During the 52 Weeks ending Saturday 28th December 1878.							
		DEATHS of Persons of the Ages							80 Years and upwds.
		ALL AGES.	Under 20.			20 and under 40.	40 and under 60.	60 and under 80.	
Mean Temperature	° 49·7	Mean Temp. ° 49·7	0-1.	1-5.	5-20.				
ORDER 4.									
1. Gastritis - - - - -	110·2	103	13	4	7	14	29	36	-
2. Enteritis - - - - -	347·0	370	160	50	39	38	44	32	7
3. Peritonitis - - - - -	323·1	275	11	14	50	88	64	45	3
4. Ascites - - - - -	121·4	81	2	2	1	11	33	32	-
5. Ulceration of Intestines - - - - -	160·4	162	6	9	21	40	56	29	1
6. Hernia - - - - -	193·3	177	15	1	2	18	54	82	5
7. Ileus - - - - -	195·4	221	29	5	11	24	65	72	15
8. Intussusception - - - - -	62·6	65	24	6	1	10	8	14	2
9. Stricture of Intestines - - - - -	55·2	40	1	1	-	7	17	14	-
10. Fistula - - - - -	25·8	29	-	1	-	4	12	11	1
11. Stomach Disease, &c. - - - - -	380·5	412	86	21	17	53	104	114	17
12. Pancreas Disease, &c. - - - - -	1·1	-	-	-	-	-	-	-	-
13. Hepatitis - - - - -	202·2	183	4	3	3	37	83	49	4
14. Jaundice - - - - -	243·8	227	101	3	3	16	33	54	12
15. Liver Disease, &c. - - - - -	1068·0	1159	22	12	15	196	564	338	12
16. Spleen Disease, &c. - - - - -	16·9	20	2	7	2	3	5	1	-
ORDER 5.									
1. Nephritis - - - - -	143·3	192	4	25	33	39	61	28	2
2. Ischuria - - - - -	15·7	13	-	-	-	2	4	7	-
3. Bright's Disease (Nephria) - - - - -	669·7	740	1	17	27	174	311	202	8
4. Diabetes - - - - -	124·5	140	-	2	15	43	46	33	1
5. Calculus (Stone) - - - - -	48·0	59	-	3	1	6	11	34	4
6. Cystitis - - - - -	72·2	99	-	1	2	7	33	44	12
7. Kidney Disease, &c. - - - - -	479·7	475	4	17	31	89	136	174	24
ORDER 6.									
1. Ovarian Dropsy - - - - -	32·7	60	-	-	1	19	23	17	-
2. Uterus Disease, &c. - - - - -	254·8	216	1	-	8	70	79	56	2
ORDER 7.									
1. Synovitis (Arthritis) - - - - -	20·5	17	1	1	6	3	3	3	-
2. Joint Disease, &c. - - - - -	341·0	369	12	39	146	66	60	44	2
ORDER 8.									
1. Phlegmon - - - - -	164·9	171	34	19	28	40	33	17	-
2. Ulcer - - - - -	64·3	63	1	2	-	3	25	31	1
3. Skin Disease, &c. - - - - -	73·1	98	59	10	3	6	7	13	-
IV. DEVELOPMENTAL DISEASES.									
ORDER 1.									
1. Premature Birth - - - - -	1258·0	1350	1347	3	-	-	-	-	-
2. Cyanosis - - - - -	133·7	145	129	9	4	2	1	-	-
3. Spina Bifida - - - - -	64·5	77	75	2	-	-	-	-	-
4. Other Malformations - - - - -	97·3	111	109	2	-	-	-	-	-
5. Teething - - - - -	800·1	775	413	362	-	-	-	-	-
ORDER 2.									
1. Paramenia - - - - -	10·1	13	-	-	2	4	7	-	-
2. Childbirth (see Puerperal Fever) - - - - -	326·2	255	-	-	14	207	34	-	-
ORDER 3.									
1. Old Age - - - - -	2703·7	2514	-	-	-	-	-	1220	1294
ORDER 4.									
1. Atrophy and Debility - - - - -	3621·8	3455	2741	329	24	14	66	281	-
V. VIOLENT DEATHS, &c.									
ORDER 1.									
(ACCIDENT OR NEGLIGENCE.)									
1. Fractures and Contusions - - - - -	999·1	965	27	84	132	237	265	186	34
2. Wounds - { Gunshot - - - - -	37·5 {	7	-	1	3	1	2	-	-
{ Cut, Stab - - - - -		20	-	-	1	6	7	6	-
3. Burns and Scalds - - - - -	282·8	267	22	136	42	19	18	22	8
4. Poison - - - - -	55·8	69	9	9	7	21	14	9	-
5. Drowning - - - - -	351·5	869	18	44	265	313	181	46	2
6. Suffocation - - - - -	525·5	569	503	15	5	10	18	13	5
7. Otherwise - - - - -	196·7	150	45	12	23	26	23	18	3
ORDER 3.									
(HOMICIDE.)									
Murder and Manslaughter - - - - -	110·2	78	55	3	3	8	8	1	-
ORDER 4.									
(SUICIDE.)									
1. Wounds - { Gunshot - - - - -	17·8	30	-	-	1	13	13	3	-
{ Cut, Stab - - - - -	69·9	59	-	-	-	18	30	10	1
2. Poison - - - - -	50·0	64	-	-	3	33	20	8	-
3. Drowning - - - - -	65·8	59	-	-	5	18	31	5	-
4. Hanging - - - - -	75·8	74	-	-	2	17	41	13	1
5. Otherwise - - - - -	26·4	29	-	-	-	10	14	5	-
ORDER 5.									
(EXECUTION.)									
1. Hanging - - - - -	2·4	1	-	-	-	1	-	-	-
Sudden Deaths (Cause unascertained) - - - - -	44·9	18	3	1	1	2	2	7	2
Causes not specified or ill-defined - - - - -	314·3	118	70	7	3	8	11	19	-

NOTE.—Where a person is “found drowned” the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under “accident or negligence.”

\* These averages have been raised rather more than 7 per cent., to allow for increase of population between the middle of the period 1868-77, and the middle of 1878.



TABLE 16.—Causes of Deaths REGISTERED in London in each of the 10 Years 1868–1877; Average 1868–1877; and Deaths REGISTERED in 1878 and in each Quarter of 1878.

Class.	MEAN TEMPERATURE -	51°·6	49°·5	48°·7	48°·7	50°·7	48°·9	49°·4	49°·4	50°·1	49°·7	49°·7	49°·6	1878.			
														THIRTEEN WEEKS.			
	YEARS - - - -	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	Annual Average 1868-77†	1878	Mar. 30	June 29	Sept. 28	Dec. 28
	CAUSES OF DEATH.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	365·4 Days.	364 Days.	91 Days	91 Days	91 Days	91 Days
	ALL CAUSES - -	74908	77933	77278	80332	70893	76634	76606	81513	77411	77002	82695·2	83695	22803	20056	19689	21147
	SPECIFIED CAUSES -	74234	77406	76831	80009	70639	76355	76347	81270	77221	76851	82336·0	83559	22765	20028	19653	21113
	(CLASSES.)																
I.	ZYMOTIC DISEASES	18893	20883	20634	22878	16236	15203	15453	17559	16285	15786	19234·0	18220	4629	4397	5878	3316
II.	CONSTITUTIONAL "	14621	14442	14137	14022	13891	14378	14338	15216	14916	14818	15570·6	15509	3807	4019	3981	3702
III.	LOCAL "	29338	31334	31270	32071	29921	35343	35255	37220	34892	35512	35648·8	37825	11296	8831	6924	10774
IV.	DEVELOPMENTAL "	8815	8397	8514	8444	7983	8588	8531	8423	8243	8063	9015·4	8695	2308	2037	2191	2159
V.	VIOLENT DEATHS -	2567	2348	2576	2594	2608	2843	2770	2852	2885	2672	2867·2	3310	725	744	679	1162
	(ORDERS.)																
I.	1. MIASMATIC DISEASES -	17323	19425	18611	21518	14750	13683	13893	15842	14681	14146	17587·5	16567	4218	4051	5377	2921
	2. ENTHETIC "	529	549	517	417	510	503	504	549	534	519	550·7	533	143	104	151	135
	3. DIETIC "	807	710	726	778	819	832	868	969	879	936	893·4	922	233	201	276	212
	4. PARASITIC "	234	201	180	165	157	185	188	199	191	185	202·4	198	35	41	74	48
II.	1. DIATHETIC "	2522	2527	2665	2506	2531	2666	2851	2741	2721	2636	2829·7	2797	725	697	674	701
	2. TUBERCULAR "	12099	11915	11772	11516	11360	11712	11487	12475	12195	12182	12740·9	12712	3082	3322	3307	3001
III.	1. DISEASES OF NERVOUS SYSTEM - -	8489	8467	8647	8454	7855	8413	8831	9195	8951	9037	9266·4	9154	2511	2405	2159	2379
	2. " OF ORGANS OF CIRCULATION -	3558	3633	3649	3953	3802	4227	4297	4418	4217	4451	4315·0	4705	1311	1109	959	1326
	3. " OF RESPIRATORY ORGANS - -	12182	14121	13906	14500	12985	16912	16112	17492	15615	15777	16056·1	17430	5902	3742	2248	5538
	4. " OF DIGESTIVE ORGANS - -	3031	2961	3033	3047	3131	3416	3464	3495	3552	3545	3506·9	3524	857	888	946	833
	5. " OF URINARY OR- GANS - -	1197	1363	1294	1310	1331	1472	1595	1639	1604	1666	1553·1	1718	461	431	385	441
	6. " OF ORGANS OF GENERATION -	295	265	235	230	259	278	284	283	260	290	287·5	276	65	75	60	76
	7. " OF ORGANS OF LOCOMOTION -	331	300	274	347	335	337	320	373	352	399	361·5	333	96	101	89	100
	8. " OF INTEGUMEN- TARY SYSTEM -	255	224	232	230	223	288	352	325	341	347	362·3	332	93	80	78	81
IV.	1. DEV. DIS. OF CHILDREN	2193	2118	2099	2205	2057	2100	2174	2343	2316	2325	2353·6	2458	655	670	541	592
	2. " OF ADULTS -	284	270	316	325	260	331	349	338	364	296	336·3	268	96	56	61	55
	3. " OF OLD PEOPLE	2544	2587	2743	2643	2295	2661	2479	2462	2399	2379	2703·7	2514	706	572	509	727
	4. DISEASES OF NUTRITION	3794	3422	3356	3271	3371	3496	3529	3280	3164	3063	3621·8	3455	851	739	1080	785
V.	1. ACCIDENT OR NEGLI- GENCE - - -	2159	1935	2195	2185	2214	2432	2415	2482	2444	2317	2448·9	2916	609	627	589	1091
	* 3. HOMICIDE - - -	112	110	106	109	125	124	97	70	96	78	110·2	78	22	23	22	11
	4. SUICIDE - - -	294	302	273	300	268	267	255	298	298	273	305·7	315	94	91	68	59
	5. EXECUTION - - -	2	1	2	..	1	..	3	2	7	4	2·4	1	..	..	..	1
	SUDDEN DEATHS, CAUSE UN- ASCERTAINED - - -	60	53	79	40	24	38	36	48	19	21	44·9	18	6	4	4	4
	CAUSES NOT SPECIFIED - -	614	474	368	283	230	241	223	195	171	130	314·3	113	32	24	32	30

\* Order 2., comprising Violent Deaths IN BATTLE, is omitted as inapplicable to the civil population.

† These averages have been raised rather more than 7 per cent., to allow for increase of population between the middle of the period 1868-77, and the middle of 1878.



TABLE 16 (continued).—Causes of Deaths REGISTERED in London in each of the 10 Years

Class.	MEAN TEMPERATURE	51°·6	49°·5	48°·7	48°·7	50°·7	48°·9	49°·4	49°·4	50°·1	49°·7	49°·7	49°·6	1878.			
		THIRTEEN WEEKS.												Mar. 30	June 29	Sept. 23	Dec. 23
		YEARS	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	Annual Average 1868-77.*	1878			
	CAUSES OF DEATH.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.
I.	ORDER 1.																
	1. Small-pox - - -	606	273	958	7876	1781	115	56	75	735	2544	1611·9	1416	556	618	133	109
	2. Measles - - -	1989	1425	1443	1431	1680	2195	1655	1427	1741	2347	1860·3	1510	708	337	165	300
	3. Scarlet Fever (Scarlatina) - - -	2921	5803	5998	1896	904	652	2662	3651	2297	1576	3043·7	1792	457	339	330	666
	4. Diphtheria - - -	497	343	313	313	255	306	365	546	359	317	387·9	558	104	147	131	176
	5. Quinsy - - -	32	33	24	29	29	44	63	62	42	40	42·7	42	6	12	9	15
	6. Croup - - -	717	582	592	528	616	719	751	722	603	529	632·5	600	190	137	103	170
	7. Whooping-cough - - -	2369	3755	1935	2299	3249	2689	1861	3232	2739	1780	2780·5	4446	1376	1600	943	527
	8. { Typhus Fever - - -	2483	724	468	398	175	284	312	128	163	159	1907·9	150	55	41	21	33
	{ Enteric or Typhoid Fever - - -		1055	976	885	824	921	883	842	781	886		1010	252	191	230	337
	{ Simple continued Fever - - -		635	609	463	341	344	359	312	232	204		201	48	61	48	44
	9. Erysipelas - - -	427	332	447	494	386	424	558	433	379	322	451·0	278	36	79	51	62
	10. Puerperal Fever (Metria) - - -	219	198	217	182	251	306	456	304	255	217	279·6	195	62	55	28	50
	11. Carbuncle - - -	51	53	25	28	38	38	36	38	40	35	41·0	28	4	7	12	5
	12. Influenza - - -	26	39	30	35	21	16	16	21	23	15	26·0	9	5	..	1	3
	13. Dysentery - - -	90	94	87	85	79	83	72	78	71	93	89·3	70	8	13	23	21
	14. Diarrhoea - - -	4060	3400	3776	3894	3490	3879	3077	3198	3518	2479	3731·8	3651	160	280	2932	279
	15. Cholera - - -	320	217	235	221	175	164	122	107	131	88	191·0	123	3	8	110	2
	16. Ague - - -	17	23	14	19	12	17	26	18	12	13	18·4	8	1	1	4	2
	17. Remittent Fever - - -	8	16	10	9	18	15	15	8	8	11	12·7	14	8	3	2	1
	18. Rheumatism - - -	474	403	429	408	408	453	526	614	509	451	501·7	432	118	109	92	113
	19. Other Zymotic Diseases - - -	17	22	25	25	18	19	22	26	43	40	27·6	34	11	13	4	6
	ORDER 2.																
	1. Syphilis - - -	473	466	463	356	435	436	423	471	436	439	472·0	461	118	85	138	120
	2. Stricture of Urethra - - -	52	78	51	59	72	63	70	72	89	61	71·6	63	24	16	12	11
	3. Hydrophobia - - -	..	3	..	1	..	1	9	6	6	16	4·5	5	1	2	..	2
	4. Glanders - - -	4	2	3	1	3	3	2	..	3	3	2·6	4	..	1	1	2
	ORDER 3.																
	1. Privation - - -	36	20	27	20	14	20	15	32	27	28	25·6	30	9	8	5	8
	2. Want of Breast Milk - - -	507	442	479	455	525	539	592	610	519	558	561·0	520	129	89	183	119
	3. Purpura and Scurvy - - -	95	83	104	152	118	120	110	121	138	166	129·5	170	46	53	37	34
	4. Alco- } a Del. Tremens holism } b Intemperance	110 59	118 47	70 46	89 62	86 76	79 74	71 80	97 109	84 111	70 114	93·8 83·5	70 132	13	18	22	17
	ORDER 4.																
	1. Thrush - - -	228	187	173	146	137	168	171	185	179	167	186·9	172	32	36	68	36
	2. Worms, &c. - - -	6	14	7	19	20	17	17	14	12	18	15·5	26	3	5	6	12
II.	ORDER 1.																
	1. Gout - - -	115	105	109	123	126	121	143	140	144	179	140·1	135	32	36	30	37
	2. Dropsy - - -	638	656	656	566	516	542	574	448	429	367	578·7	364	89	104	84	87
	3. Cancer - - -	1580	1584	1677	1611	1712	1793	1929	1951	1973	1910	1901·8	2086	534	507	516	529
	4. Cancerum Oris (Noma) - - -	23	19	17	19	22	16	17	17	20	12	19·5	24	9	2	5	8
	5. Mortification - - -	166	163	206	187	155	194	188	185	155	168	189·6	188	61	48	39	40
	ORDER 2.																
	1. Scrofula - - -	407	388	429	473	464	576	583	654	590	654	560·0	637	170	171	194	152
	2. Tabes Mesenterica - - -	1190	1207	1131	1178	1180	1214	1195	1573	1456	1450	1370·9	1515	296	314	579	326
	3. Phthisis - - -	9021	8788	8773	8473	8366	8544	8255	8797	8731	8519	9258·7	8885	2201	2320	2141	2223
	4. Hydrocephalus - - -	1481	1532	1439	1392	1350	1378	1454	1451	1418	1559	1551·3	1625	415	517	393	300
III.	ORDER 1.																
	1. Cephalitis - - -	867	850	910	855	928	931	959	1097	1123	1221	1045·5	1285	310	364	317	294
	2. Apoplexy - - -	1763	1794	2056	2113	2014	2170	2262	2195	2165	2175	2222·4	2341	630	567	500	644
	3. Paralysis - - -	1550	1548	1600	1490	1392	1602	1636	1617	1437	1448	1644·2	1644	453	384	363	444
	4. Insanity - - -	116	107	110	114	115	118	159	131	116	86	125·8	106	24	23	33	26
	5. Chorea - - -	7	13	15	12	10	11	4	13	10	8	11·6	11	3	1	2	5
	6. Epilepsy - - -	355	353	344	285	335	367	372	418	337	371	384·9	358	100	96	77	85
	7. Convulsions - - -	2867	2967	2742	2735	2253	2322	2533	2595	2609	2544	2808·4	2558	633	711	591	573
	8. Brain Disease, &c. - - -	964	830	870	850	808	892	906	1129	1104	1184	1023·6	1151	308	259	276	308
	ORDER 2.																
	1. Pericarditis - - -	136	134	122	133	134	136	165	147	113	134	145·2	127	27	36	27	37
	2. Aneurism - - -	147	139	157	142	162	157	169	163	186	168	168·0	184	49	40	45	50
	3. Heart Disease, &c. - - -	3275	3360	3370	3678	3516	3934	3973	4113	3918	4149	4001·8	4394	1235	1033	887	1239
	ORDER 3.																
	1. Laryngitis - - -	343	397	421	388	395	486	486	492	457	467	465·0	476	162	133	74	107
	2. Bronchitis - - -	6688	8059	8234	8806	7542	10259	9583	10601	9231	9607	9510·1	10879	3303	2178	1213	3685
	3. Pleurisy - - -	187	171	156	156	208	232	267	271	237	222	226·1	247	71	58	59	59
	4. Pneumonia - - -	3800	4217	3762	3776	3681	4291	4298	4552	4210	4068	4363·3	4398	1373	1078	726	1221
	5. Asthma - - -	439	555	529	564	383	694	549	576	520	468	566·4	432	199	79	39	165
	6. Lung Disease, &c. - - -	725	722	804	810	776	950	929	1000	960	945	925·2	948	294	216	137	301
	ORDER 4.																
	1. Gastritis - - -	93	86	98	96	94	95	119	112	131	103	110·2	103	31	17	24	31
	2. Enteritis - - -	313	322	278	290	270	351	340	379	341	349	347·0	370	73	101	134	62
	3. Peritonitis - - -	299	245	278	278	289	356	365	296	298	307	323·1	275	81	61	69	64
	4. Ascites - - -	106	116	128	125	124	112	121	90	105	104	121·4	81	18	20	24	19
	5. Ulceration of Intestines - - -	142	136	173	169	151	174	147	147	139	117	160·4	162	42	42	38	40
	6. Hernia - - -	169	161	176	171	172	175	199	210	177	191	193·3	177	56	39	36	46
	7. Ileus - - -	163	150	166	189	172	210	185	175	210	201	195·4	221	50	67	51	53
	8. Intussusception - - -	42	54	60	66	61	50	73	61	67	69	62·6	65	15	19	14	17

\* See note † on page xxi.



1868-1877; Averages 1868-1877; and Deaths REGISTERED in 1878 and in each Quarter of 1878.

Class.	MEAN TEMPERATURE -	51°6	49°5	48°7	48°7	50°7	48°9	49°4	49°4	50°1	49°7	49°7	49°6	1878.				
														THIRTEEN WEEKS.				
		YEARS - - - -	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	Annual Average 1868-77.*	1878	Mar. 30	June 29	Sept. 28	Dec. 28
CAUSES OF DEATH.		371	364	364	364	364	371	364	364	364	364	365.4	364	91	91	91	91	
		Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	
III. cont.	ORDER 4.—continued.																	
	9. Stricture of Intestines -	45	45	36	58	58	45	48	66	51	62	55.2	40	6	17	9	8	
	10. Fistula -	20	18	19	25	26	39	23	19	25	26	25.8	29	6	6	10	7	
	11. Stomach Disease, &c. -	330	308	356	313	334	371	361	354	374	444	380.5	412	108	87	100	117	
	12. Pancreas Disease, &c. -	3	2	1	..	1	1	1	1	..	..	1.1	..	..	..	..	..	
	13. Hepatitis -	171	166	178	164	169	202	203	231	225	175	202.2	183	50	45	49	41	
	14. Jaundice -	238	225	204	225	245	223	215	226	234	237	243.8	227	47	65	74	41	
	15. Liver Disease, &c. -	883	915	878	872	954	1001	1050	1107	1148	1143	1068.0	1159	273	300	308	278	
	16. Spleen Disease, &c. -	14	12	14	16	11	11	14	21	27	17	16.9	20	1	4	6	9	
	ORDER 5.																	
	1. Nephritis - - -	87	106	124	114	91	111	165	164	177	196	143.3	192	49	47	44	52	
	2. Ischuria - - -	15	15	14	8	24	14	15	14	16	11	15.7	13	4	3	3	3	
	3. Bright's Dis. (Nephria) -	436	608	543	494	644	642	709	741	703	720	669.7	740	185	196	169	190	
	4. Diabetes - - -	93	93	104	110	105	130	124	115	129	157	124.5	140	43	33	30	34	
	5. Calculus (Stone) - -	45	38	32	44	42	48	43	41	59	55	48.0	59	18	9	19	13	
	6. Cystitis - - -	71	55	55	68	60	72	72	80	71	69	72.2	99	32	20	25	22	
7. Kidney Disease, &c. -	450	448	422	472	365	455	467	484	449	458	479.7	475	130	123	95	127		
ORDER 6.																		
1. Ovarian Dropsy - -	41	38	24	24	20	32	20	20	28	58	32.7	60	13	19	11	17		
2. Uterus Disease, &c. -	254	227	211	206	239	246	264	263	232	232	254.8	216	52	56	49	59		
ORDER 7.																		
1. Synovitis (Arthritis) -	9	14	19	20	15	19	20	27	20	28	20.5	17	3	3	2	9		
2. Joint Disease, &c. -	322	286	255	327	320	318	300	346	332	371	341.0	369	93	98	87	91		
ORDER 8.																		
1. Phlegmon - - -	132	113	127	126	107	154	214	182	190	192	164.9	171	59	32	42	38		
2. Ulcer - - -	56	56	48	44	54	55	74	63	71	78	64.3	63	13	20	14	16		
3. Skin Disease, &c. - -	67	55	57	60	62	79	64	80	80	77	73.1	98	21	28	22	27		
IV.	ORDER 1.																	
	1. Premature Birth - -	1105	1010	1060	1155	1171	1158	1201	1255	1325	1281	1258.0	1350	324	334	323	269	
	2. Cyanosis - - -	118	92	103	100	127	126	127	139	142	172	133.7	145	40	40	21	41	
	3. Spina Bifida - - -	48	65	57	60	52	64	52	61	70	72	64.5	77	23	26	12	16	
	4. Other Malformations -	88	69	97	87	76	92	81	114	98	105	97.3	111	29	30	28	24	
	5. Teething - - -	834	882	782	803	631	660	713	774	681	695	800.1	775	239	240	154	142	
	ORDER 2.																	
	1. Paramenia - - -	9	11	10	7	7	5	14	14	10	7	10.1	13	5	4	1	3	
	2. Childbirth (see Puerperal Fever) - - -	275	259	306	318	253	326	335	324	354	289	326.2	255	91	52	60	52	
	ORDER 3.																	
	1. Old Age - - -	2544	2587	2743	2643	2295	2661	2479	2462	2399	2379	2703.7	2514	706	572	509	727	
	ORDER 4.																	
	1. Atrophy and Debility -	3794	3422	3356	3271	3371	3496	3529	3280	3164	3063	3621.8	3455	851	739	1080	785	
	V.	ORDER 1.																
		(ACCIDENT OR NEGLIGENCE.)																
		1. Fractures and Contusions	871	774	941	909	893	977	964	1004	1020	957	999.1	965	250	252	222	241
2. Wounds { Gunshot -		20	21	44	38	{ 2 4	{ 36 29	46	41	32	19	{ 37.5	7	1	1	4	1	
2. Wounds { Cut, Stab -																		
3. Burns and Scalds -		287	263	275	261	239	279	274	270	240	247	282.8	267	99	47	42	79	
4. Poison - - -		44	44	52	45	43	45	58	46	76	67	55.8	69	14	15	15	25	
5. Drowning - - -		339	297	279	300	339	363	324	375	343	316	351.5	369	59	108	142	560	
6. Suffocation - - -		386	388	400	490	496	534	540	555	559	548	525.5	569	156	167	100	146	
7. Otherwise - - -		212	148	204	142	166	201	202	189	211	158	196.7	150	24	31	59	36	
ORDER 3.																		
(HOMICIDE.)																		
1. Murder and Manslaughter		112	110	106	109	125	124	97	70	96	78	110.2	78	22	23	22	11	
ORDER 4.																		
(SUICIDE.)																		
1. Wounds { Gunshot -		16	10	16	21	17	17	21	11	17	20	17.8	30	11	7	6	6	
2. Poison - - -	50	75	62	72	64	72	58	77	66	55	69.9	59	18	18	13	10		
3. Drowning - - -	46	54	51	52	44	41	28	44	57	49	50.0	64	21	11	16	16		
4. Hanging - - -	72	69	56	69	57	62	59	57	68	44	65.8	59	17	22	11	9		
5. Hanging - - -	79	74	57	63	64	76	64	81	67	81	75.8	74	18	28	15	13		
5. Otherwise - - -	31	20	31	23	22	19	25	28	23	24	26.4	29	9	8	7	5		
ORDER 5.																		
(EXECUTION.)																		
1. Hanging - - -	2	1	2	..	1	..	3	2	7	4	2.4	1	..	..	..	1		
Sudden Deaths (cause un-																		
ascertained) - - -	60	53	79	40	24	38	36	48	19	21	44.9	18	6	4	4	4		
Causes not specified or ill-																		
defined - - -	614	474	368	283	230	241	223	195	171	130	314.3	118	32	24	32	30		

NOTE.—Cases of “infantile fever” are classed with those of “enteric or typhoid fever;” “relapsing,” and other continued fevers, under “simple continued fever;” “rheumatic fever” is classed with “rheumatism.” As “stricture of the urethra” is almost invariably the result of gonorrhoea, it is classed among enthetic diseases. Cases of “haemorrhage” and “abscess” with the diseases of the organs affected. Cases of “neglect” and “cold,” except when the result of “privation” (Class I.; 3; 1), are placed under deaths by “accident or negligence” (Class V.; 1; 7.) Where a person is “found drowned” the coroners do not always succeed in discovering whether the case is a suicide, a murder, or an accident; such cases are classed under “accident or negligence.”

\* See note † on page xxi.



TABLE 17.—Deaths REGISTERED in the London Districts, and the Mean Temperature, in each of the 11 Years 1868-1878.

DISTRICTS.	AREA in Acres.*	DENSITY, Persons to an Acre, 1871.	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	
Mean Temperature - - -	---	---	51°·6	49°·5	48°·7	48°·7	50°·7	48°·9	49°·4	49°·4	50°·1	49°·7	
LONDON -	73,080	42	73,798	78,082	77,634	80,430	71,355	75,459	76,813	81,964	77,671	77,449	88
1 KENSINGTON - - -	3441	63	3962	4056	4427	4286	3993	4371	4677	4808	4885	4473	
1a FULHAM - - -	4209	16	1336	1397	1579	1446	1405	1479	1660	1875	1964	1771	
2 CHELSEA - - -	861	83	1789	1772	1927	1877	1640	1686	1802	1923	1753	1746	
3 ST. GEO. HANOVER SQ. -	2051	76	3672	3620	3963	3923	3244	3339	3310	3739	3370	3163	
4 WESTMINSTER - - -	216	237	1092	1180	1252	1127	1002	1101	1004	1079	971	873	
5 MARYLEBONE - - -	1506	106	3863	3984	3945	3852	3704	3663	3884	3991	3627	3511	
6 HAMPSTEAD - - -	2248	14	400	459	550	1636	687	541	563	652	693	901	
7 PANCRAS - - -	2672	83	4888	5067	5407	5456	4919	5206	5057	5434	5193	5122	
8 ISLINGTON - - -	3107	69	4886	4937	5078	5048	4196	4456	4816	4833	4969	5111	
9 HACKNEY - - -	3935	82	2247	2650	2476	3327	2814	2725	3009	3145	3107	3550	
10 ST. GILES - - -	245	219	1345	1459	1421	1269	1198	1150	1213	1217	1111	1095	
11 STRAND - - -	433	95	1253	1210	1263	1149	1041	1208	1081	1097	999	973	
12 HOLBORN - - -	816	200	4042	4201	4062	3878	3686	3918	3925	3963	3651	3633	
13 LONDON CITY - - -	731	104	2232	2316	2053	2018	1825	1814	1906	1885	1639	1583	
14 SHOREDITCH - - -	648	196	3242	3462	3210	3410	2959	3052	2939	3296	2825	2877	
15 BETHNAL GREEN - - -	755	159	2985	3252	2850	3029	2690	3066	3033	3114	2832	2904	
16 WHITECHAPEL - - -	405	190	2519	2627	2471	2469	2411	2424	2637	2483	2361	2511	
17 ST. GEO.-IN-THE-EAST -	244	197	1238	1408	1273	1392	1083	1259	1292	1191	1151	1224	
18 STEPNEY - - -	569	101	1334	1492	1256	1266	1089	1272	1245	1344	1264	1299	
19 MILE END OLD TOWN -	679	137	1934	2245	1993	2229	1944	2110	2104	2137	2223	2199	
20 POPLAR - - -	2648	44	2375	3050	2838	2942	3089	3259	3435	3430	3377	3474	
21 ST. SAVIOUR SOUTHWARK -	1170	150	4270	4793	4379	4672	3850	4293	4252	4689	4071	4336	
22 ST. OLAVE SOUTHWARK -	1725	71	3127	3703	3220	3519	3088	3495	3198	3825	3408	3275	
23 LAMBETH - - -	4059	51	4386	4371	4615	5475	4713	5025	4851	5647	5197	5534	
24 WANDSWORTH - - -	11740	11	2152	2390	2674	2877	2426	2545	2796	3112	3163	3004	
25 CAMBERWELL - - -	4450	25	2262	2361	2377	2350	2340	2431	2487	3024	2757	2711	
26 GREENWICH - - -	3900	26	2409	2438	2491	2241	2103	2311	2212	2539	2433	2333	
27 LEWISHAM - - -	11436	5	773	794	894	817	825	818	899	965	973	920	
28 WOOLWICH - - -	7281	10	1585	1388	1685	1445	1391	1432	1476	1507	1699	1343	

NOTE. — The Deaths in this Table are compiled from the Abstracts which appear in the Registrar General's Annual Reports, excepting for the year 1878, for which the Deaths are derived from the Weekly Returns embracing 52 weeks.

\* These areas have recently been supplied to the Registrar General by the Ordnance Survey Department, and include 2718 acres of tidal water, or river Thames. For area of the Greater London see Table 6.



TABLE 18. LONDON.—Births and Deaths; DEATHS of INFANTS under 1 Year of Age, and of PERSONS aged 60 Years and upwards from ALL CAUSES; and DEATHS from the principal ZYMOTIC DISEASES and from VIOLENCE, INQUEST CASES, and DEATHS in PUBLIC INSTITUTIONS, in GROUPS of DISTRICTS, and in each METROPOLITAN DISTRICT during the 52 Weeks ending Saturday, 28th December 1878.

REGISTRARS' SUB-DISTRICTS.	Enumerated Population, 1871.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include															
				Deaths of		Deaths from												Inquest Cases.	Deaths in Public Institutions.
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.			
LONDON - -	3,254,260	129184	83695	21176	16991	1416	1510	1792	558	4446	150	1010	201	3651	123	3310	5586	15381	
WEST DISTRICTS -	561,359	19333	13687	3356	3041	161	189	259	76	670	15	136	27	612	22	444	896	2583	
NORTH DISTRICTS -	751,729	29662	18824	4652	4176	612	275	530	153	855	18	285	40	803	21	492	1110	3458	
CENTRAL DISTRICTS -	334,369	9122	7367	1650	1308	6	111	132	45	326	9	109	19	279	3	370	660	1757	
EAST DISTRICTS -	639,111	27350	16878	4490	3332	153	323	307	74	984	27	163	41	735	30	726	1244	3399	
SOUTH DISTRICTS -	967,692	43417	26939	7028	5134	484	607	564	210	1611	81	317	74	1222	47	1278	1676	4184	
WEST DISTRICTS.																			
1. KENSINGTON - - -	217112	7486	5024	1259	1126	11	79	113	39	262	4	50	7	231	3	161	324	772	
1a. FULHAM - - -	66041	3610	2346	648	446	139	27	95	21	109	3	25	7	140	6	74	160	307	
2. CHELSEA - - -	70733	2841	1902	508	430	4	30	15	3	91	2	16	1	95	4	32	120	376	
3. ST. GEO. HANOVER SQ.	156287	4115	3317	656	806	7	28	15	6	156	4	37	9	101	7	149	240	952	
4. WESTMINSTER - -	51181	1281	1098	285	233	-	25	21	7	52	2	8	3	45	2	28	52	176	
NORTH DISTRICTS.																			
5. MARYLEBONE - - -	159254	5005	3623	816	933	10	56	40	24	159	-	30	4	140	3	82	223	820	
6. HAMPSTEAD - - -	32281	991	868	136	149	230	13	5	33	24	1	7	1	21	-	17	32	317	
7. PANCRAS - - -	221465	8249	5329	1360	1200	27	57	131	21	242	3	58	6	255	3	174	391	1095	
8. ISLINGTON - - -	213778	9467	5332	1453	1105	113	113	198	45	295	6	78	18	248	7	129	299	561	
9. HACKNEY - - -	124951	5950	3672	887	789	232	36	156	30	135	8	112	11	139	8	90	165	665	
CENTRAL DISTRICTS.																			
10. ST. GILES - - -	53556	1617	1091	282	203	-	21	9	6	68	-	12	2	49	1	34	86	195	
11. STRAND - - -	41339	935	1064	206	177	-	8	11	2	27	-	22	-	33	1	71	105	390	
12. HOLBORN - - -	163491	5556	3655	959	609	5	77	95	23	185	4	37	6	163	-	117	288	588	
13. LONDON CITY - -	75983	1314	1557	203	314	1	5	17	14	46	5	38	11	34	1	148	181	584	
EAST DISTRICTS.																			
14. SHOREDITCH - - -	127164	5074	3097	845	707	12	41	112	9	226	2	40	4	132	3	74	152	529	
15. BETHNAL GREEN - -	120104	5195	2951	787	545	22	60	68	12	197	6	26	8	100	6	90	198	465	
16. WHITECHAPEL - - -	76573	2658	2430	482	461	11	32	18	6	84	1	24	4	89	1	218	331	1034	
17. ST. GEO.-IN-THE-EAST	48052	1870	1142	326	255	7	16	7	11	65	-	5	7	63	3	30	59	296	
18. STEPNEY - - -	57690	2225	1325	409	191	24	39	17	11	87	6	16	6	73	2	83	114	127	
19. MILE END OLD TOWN	93152	4176	2280	653	488	44	45	31	11	137	4	19	4	128	8	50	107	232	
20. POPLAR - - -	116376	6152	3653	983	635	33	95	54	14	188	8	33	8	150	7	181	233	716	
SOUTH DISTRICTS.																			
21. ST.SAVIOUR SOUTHWARK	175049	7399	4764	1362	845	42	92	96	30	364	4	40	11	251	7	93	200	687	
22. ST. OLAVE SOUTHWARK	122398	5449	3801	925	596	14	97	64	21	312	10	34	8	211	9	187	216	888	
23. LAMBETH - - -	208342	8986	5788	1424	1188	178	95	179	63	342	48	115	19	243	7	171	263	1165	
24. WANDSWORTH - - -	125060	6507	3276	969	680	19	84	39	19	149	5	30	2	179	3	80	138	305	
25. CAMBERWELL - - -	111306	5382	3348	959	690	29	94	111	30	207	7	23	24	149	15	66	110	344	
26. GREENWICH - - -	100300	4376	2782	696	550	197	85	24	14	121	4	54	4	104	3	79	100	542	
27. LEWISHAM - - -	51557	2031	1063	278	260	3	9	35	8	53	-	4	4	44	3	22	27	65	
28. WOOLWICH - - -	73380	2727	2117	415	325	2	51	13	25	63	3	12	2	41	-	530	592	188	



TABLE 13 (continued). LONDON.—TOTAL Births and Deaths; DEATHS of INFANTS under 1 Year of FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, CHOLERA, and VIOLENCE; also DEATHS in P

				The DEATHS registered in the 52 Weeks include														
REGISTRARS' SUB-DISTRICTS.	Enumerated Population, 1871.	Total Births in 52 Weeks.	Total DEATHS in 52 Weeks.	Deaths of		Deaths from												Inquest Cases.
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.		
WEST DISTRICTS.																		
St. Mary Paddington WH-	58728	2152	1252	342	298	2	22	33	13	65	1	14	-	36	2	44	71	
St. John Paddington H -	38085	727	675	94	171	1	14	10	6	12	-	12	3	14	1	51	72	
Kensington Town W -	91645	3719	2498	701	541	3	50	62	20	164	3	14	3	161	-	54	153	
Brompton H - - -	28654	888	599	122	116	5	3	8	-	21	-	10	1	20	-	12	28	
St. Peter Hammersmith -	6662	222	138	30	38	-	-	6	2	3	-	2	-	3	-	5	11	
St. Paul Hammersmith H	36029	1952	1161	335	230	4	15	48	16	53	-	11	3	75	2	51	96	
Fulham WH - - -	23350	1436	1047	283	178	135	12	41	3	53	3	12	4	62	4	18	53	
Chelsea South HHH - -	26420	993	634	178	139	4	4	1	1	49	1	8	1	31	2	19	49	
Chelsea North-west WHHH	22926	877	799	167	205	-	11	2	1	18	1	5	-	31	2	7	32	
Chelsea North-east - -	21392	971	469	163	86	-	15	12	1	24	-	3	-	33	-	6	39	
Hanover Square H - -	18698	355	231	42	60	-	5	1	-	8	-	-	-	5	2	6	13	
Mayfair WW - - -	13358	282	485	56	202	2	1	1	1	5	1	-	1	10	1	8	15	
Belgrave HH - - -	57972	1535	1291	211	296	3	5	7	3	51	3	22	3	39	1	77	95	
St. John Westminster HH	38478	1295	683	220	123	1	10	1	2	57	-	8	3	30	3	13	41	
St. Margt. Westmr. WWH -	27781	648	627	127	125	1	7	5	-	35	-	5	2	17	-	45	76	
Golden Square WH - -	12860	328	349	63	119	-	14	6	3	6	2	3	1	9	-	5	12	
Berwick Street H - -	20759	468	336	100	60	-	6	9	3	16	-	1	2	12	2	11	19	
St. Anne Soho HHHHH	17542	485	413	122	54	-	5	6	1	30	-	4	-	24	-	12	21	
NORTH DISTRICTS.																		
AllSouls (Marylebo.) HHHHH	28579	757	697	125	116	-	22	8	4	33	-	6	-	20	1	26	54	
Cavendish Square HH -	15425	265	217	34	69	1	2	3	1	7	-	4	-	7	-	6	15	
Rectory (Marylebone) WH-	26384	824	937	147	342	3	8	5	3	23	-	5	2	27	1	14	43	
St. Mary (Marylebone) HHH	21786	1121	404	123	101	2	3	4	-	17	-	5	-	19	-	10	30	
Christchurch (Marylebone) H	33944	1062	738	219	152	-	11	12	4	35	-	4	2	48	1	11	37	
St. John (Marylebone) H -	33136	976	630	168	153	4	10	8	12	44	-	6	-	19	-	15	44	
Hampstead WvHHL - -	32281	991	868	136	149	230	13	5	33	24	1	7	1	21	-	17	32	
Regent's Park H - -	38200	1222	600	180	123	3	11	9	3	26	-	8	-	27	-	21	44	
Tottenham Court vHHH -	29370	856	965	162	196	-	11	6	5	25	-	6	-	21	-	42	75	
Gray's Inn Lane HH - -	29221	984	680	187	132	9	2	26	4	27	1	13	-	41	2	36	69	
Somers Town - - -	38533	1329	762	225	154	1	10	15	3	47	-	15	1	49	-	17	49	
Camden Town W - -	17943	781	602	137	267	1	4	8	1	13	1	1	-	22	1	23	62	
Kentish Town W - -	68198	3077	1720	469	328	13	19	67	5	99	1	15	5	95	-	35	92	
Islington West HHH - -	97820	4186	2198	639	356	83	47	102	18	125	3	40	8	117	-	46	130	
Islington East WvvhH -	115953	5281	3134	814	749	30	66	96	27	170	3	38	10	131	7	33	169	
Stoke Newington H - -	9841	764	350	82	81	-	5	13	1	19	-	1	1	16	-	8	13	
Stamford Hill - - -	6598	286	139	41	29	-	2	-	7	6	1	3	2	10	-	7	10	
West Hackney - - -	28069	1291	669	194	149	7	5	27	3	38	-	15	3	28	1	10	26	
Hackney WvvhHL - -	50104	2162	1751	325	398	203	10	94	12	38	5	74	2	47	3	45	80	
South Hackney - - -	30339	1447	763	245	132	22	14	22	7	34	2	19	3	38	4	20	36	
CENTRAL DISTRICTS.																		
St. George Bloomsbury -	17853	425	255	79	42	-	5	-	1	14	-	2	-	14	1	10	18	
St. Giles South WH - -	19109	762	552	124	130	-	8	6	3	22	-	7	1	25	-	12	47	
St. Giles North - - -	16594	430	234	79	36	-	8	3	2	32	-	3	1	10	-	12	21	
St. Martin-in-the-Fields -	21238	459	515	90	86	-	4	5	1	12	-	8	-	13	-	45	63	
St. Mary-le-Strand - -	9378	232	160	52	37	-	2	2	-	3	-	1	-	10	-	6	16	
St. Clement Danes H - -	10723	244	389	64	54	-	2	4	1	12	-	13	-	10	1	20	26	
St. Geo. the Martyr HHHHH	20521	530	436	78	90	2	8	4	12	17	-	6	-	13	-	12	30	
St. Andrew Eastern W - -	13529	305	566	72	123	-	18	7	-	21	1	1	-	17	-	14	37	
Saffron Hill H - - -	9066	222	162	35	43	2	4	5	-	12	-	2	-	7	-	1	6	
St. James Clerkenwell W -	18917	776	402	123	48	-	13	7	1	18	1	5	1	20	-	9	34	
Amwell - - - - -	16884	622	342	104	52	1	12	9	2	12	-	8	-	16	-	12	50	
Pentonville - - - -	13337	539	244	83	41	-	5	3	8	1	1	3	2	17	-	10	20	
Goswell Street - - -	16242	653	314	84	56	-	9	13	1	18	-	4	-	20	-	9	15	
Old Street H - - -	12161	492	237	83	28	-	17	-	19	-	-	4	2	7	-	7	10	
City Road HHL - - -	18301	775	454	138	60	-	3	22	3	37	1	2	-	18	-	12	25	
Whitecross Street - -	13792	386	254	94	36	-	2	4	-	12	-	-	-	15	-	23	41	
Finsbury - - - - -	10741	256	193	65	32	-	3	2	1	11	-	2	1	13	-	8	20	
St. Botolph H - - -	14540	402	227	58	63	1	-	1	4	13	3	2	3	11	-	5	7	
Cripplegate - - - -	13638	237	194	43	43	-	1	2	-	9	2	4	1	7	-	9	14	
St. Sepulchre H - - -	7562	136	651	28	75	-	3	10	7	3	-	21	2	4	-	110	128	
St. Bride W - - - -	11185	196	164	29	51	-	2	1	13	-	-	2	1	5	1	8	10	
Castle Baynard - - -	4426	53	51	5	18	-	1	-	1	-	-	2	-	2	-	1	2	
Christchurch - - - -	6270	49	31	4	5	-	-	-	-	1	-	2	-	1	-	-	1	
Queenhithe - - - -	4753	69	67	11	16	-	-	-	-	3	-	1	1	2	-	12	11	
Allhallows Barking - -	5764	69	68	15	10	-	-	-	1	-	-	-	1	2	-	3	6	
Broad Street H - - -	7845	103	104	10	33	-	-	2	-	4	-	4	2	-	-	-	2	

NOTE.—The letters placed against the names of the sub-districts denote Public Institutions situated therein, namely:—W—Workhouse w—Workhouse Establishment receiving inmates from other Districts than that in which it stands (see note at the foot of next page) H—Hospital; L—Lunatic Asylum.  
\* The deaths in Prisons and Military Asylums are not included in this column.



of PERSONS aged 60 Years and upwards from ALL CAUSES; and DEATHS from SMALL-POX, MEASLES, SCARLET  
FEVERS; registered in each SUB-DISTRICT during the 52 Weeks ending Saturday, 28th December 1878.

REGISTRARS' SUB-DISTRICTS.	Enumerated Population, 1871.	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include														Inquest Cases.	Deaths in Public Institutions.*
				Deaths of		Deaths from													
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoea.	Cholera.	Violence.			
EAST DISTRICTS.																			
Holywell (Shoreditch)	12430	260	179	57	22	1	-	2	1	23	-	2	-	4	1	10	14	-	
St. Leonard (Shoreditch) <i>HL†</i>	16545	546	327	105	45	-	2	9	2	40	1	5	-	19	-	15	16	19	
Hoxton New Town <i>w</i>	27835	1174	755	188	246	1	8	14	1	45	-	7	1	27	1	15	41	172	
Hoxton Old Town	26933	1108	584	172	91	6	12	24	3	56	-	8	1	31	1	10	23	-	
Laggerston <i>WH</i>	43421	1986	1252	323	303	4	19	63	2	62	1	18	2	51	-	34	58	338	
Hackney Road	29822	1302	634	224	72	1	14	17	2	55	3	8	2	22	3	24	47	10	
Green (Bethnal Green) <i>WILL†</i>	42433	1937	1360	279	348	16	17	24	3	79	2	11	4	34	3	35	83	455	
Church (Bethnal Green)	26577	1142	559	161	71	3	20	21	5	41	-	6	-	21	-	15	39	-	
Town (Bethnal Green)	21272	814	398	123	54	2	9	6	2	22	1	1	2	23	-	16	29	-	
Hospitalsfields <i>H</i>	22499	722	417	141	74	-	5	3	2	28	1	3	1	23	-	28	57	15	
Mile End New Town <i>W</i>	15550	678	659	113	182	6	9	5	-	22	-	1	2	22	-	13	51	350	
Whitechapel North	11597	427	207	74	27	-	6	4	-	12	-	-	-	15	1	5	15	-	
Whitechapel Church <i>H</i>	7322	257	812	49	129	2	2	4	4	7	-	14	1	10	-	155	172	669	
Goodman's Fields	10381	373	184	64	23	2	1	1	-	10	-	4	-	12	-	3	9	-	
Aldgate	9224	201	151	41	26	1	9	1	-	5	-	2	-	7	-	14	27	-	
St. Mary (St. Geo.-in-the-East)	17900	712	325	133	29	5	4	-	4	21	-	1	-	25	-	10	20	-	
St. Paul (St. Geo.-in-the-East)	21350	812	379	130	55	1	11	5	5	26	-	4	6	29	2	10	24	-	
St. John (St. Geo.-in-the-East) <i>W</i>	3802	346	438	63	171	1	1	2	2	18	-	-	1	9	1	10	15	296	
Shadwell	11640	340	334	93	38	-	6	2	4	22	1	4	1	24	2	31	40	127	
Ratcliff <i>H</i>	16131	589	336	104	57	8	3	4	4	31	1	5	1	15	-	19	25	-	
Limehouse <i>W</i>	29919	1296	655	212	96	16	30	11	3	34	4	7	4	34	-	33	49	-	
Mile End Old Town Western	38128	1563	737	233	141	16	10	13	2	40	1	6	-	40	1	14	39	-	
Mile End Old Town Eastn. <i>WwwH</i>	55024	2613	1543	420	347	28	35	18	9	97	3	13	4	88	7	36	68	232	
Bow <i>wwwHL†</i>	67765	3988	2542	635	536	27	61	42	10	111	6	20	5	96	6	97	144	679	
Poplar <i>WW</i>	48611	2164	1111	353	149	6	34	12	4	77	2	13	3	54	1	84	139	37	
SOUTH DISTRICTS.																			
Christchurch Southwark <i>WH</i>	14573	523	340	83	108	-	5	5	-	18	-	1	1	14	-	9	22	71	
St. Saviour Southwark <i>H</i>	15677	567	329	98	53	1	11	6	1	22	-	-	-	14	-	14	17	-	
Kent Road	20421	808	493	167	64	1	16	12	5	52	-	6	2	37	2	13	38	-	
Borough Road <i>WH</i>	16695	635	459	141	47	9	9	19	4	40	1	1	-	22	1	16	42	92	
London Road <i>HL</i>	18961	755	482	153	55	4	4	15	3	47	1	3	4	36	1	13	28	24	
Trinity Newington	23682	1013	521	168	59	3	14	5	5	56	-	9	2	30	1	9	17	-	
St. Peter Walworth <i>W</i>	48248	2404	1751	421	399	23	21	23	7	100	2	20	1	73	1	14	25	560	
St. Mary Newington	16792	694	389	131	60	1	12	11	5	29	-	-	1	25	1	5	11	-	
St. Olave Southwark <i>H</i>	4373	94	635	24	67	-	3	5	18	5	2	15	-	3	-	105	114	561	
St. John Horsleydown <i>W</i>	10500	390	288	97	43	-	-	10	4	24	-	1	1	24	2	14	19	45	
Leather Market	16787	625	388	122	39	-	11	4	3	39	1	3	1	37	1	3	12	-	
St. Mary Magdalen <i>W</i>	15709	649	598	130	163	3	24	10	1	54	1	2	-	24	-	8	16	192	
St. James Bermondsey	47933	2318	1126	342	149	5	40	29	5	132	2	9	6	73	2	16	35	-	
Rotherhithe <i>W</i>	27096	1373	766	210	135	6	19	6	4	58	4	4	-	50	4	41	50	90	
Waterloo Road First <i>H</i>	14074	629	388	113	54	-	12	5	6	37	1	4	3	19	-	11	21	26	
Waterloo Road Second <i>H</i>	18465	640	361	112	49	-	7	9	3	24	1	3	3	15	-	9	22	-	
Lambeth Church First <i>H</i>	19492	776	797	133	119	-	10	13	15	33	3	21	3	24	1	112	130	389	
Lambeth Church Second <i>WW</i>	35833	1686	1220	296	360	5	28	12	14	68	1	4	3	57	2	15	33	458	
Kennington First	41286	1556	891	237	186	5	9	60	6	70	-	9	2	34	1	5	17	-	
Kennington Second	31221	1065	647	142	162	14	13	14	4	51	-	8	1	28	-	8	22	-	
Brixton <i>w</i>	35435	2066	1236	290	211	153	15	60	10	44	42	63	3	42	3	10	16	279	
Norwood <i>W</i>	12536	568	258	81	47	1	1	6	5	15	-	3	1	24	-	1	2	3	
Clapham <i>H</i>	27347	1095	580	147	145	3	23	12	3	29	2	3	-	26	2	11	12	11	
Battersea <i>Ww</i>	54016	3748	1803	608	309	14	39	23	8	99	3	22	2	112	-	47	78	190	
Wandsworth <i>HL</i>	19783	717	422	84	104	-	4	2	4	16	-	3	-	19	-	14	26	104	
Putney	9439	338	187	53	38	1	7	1	1	4	-	1	-	10	-	5	7	-	
Streatham	14475	609	284	77	84	1	11	2	3	11	-	1	-	12	1	3	15	-	
Dulwich	4041	80	55	15	19	-	-	2	-	2	-	-	1	6	-	2	2	-	
Camberwell <i>WL†L†</i>	21254	1559	1057	220	290	8	31	39	8	39	-	11	9	35	8	16	26	342	
Peckham <i>W</i>	42160	2467	1322	417	248	13	43	44	9	92	5	12	4	63	4	27	47	2	
St. George (Camberwell)	33851	1776	914	307	133	8	20	26	13	74	2	5	10	45	3	21	35	-	
St. Paul Deptford	53714	2611	1448	417	210	188	21	11	9	73	1	34	3	55	3	30	41	162	
St. Nicholas Deptford	6474	280	156	50	27	6	2	-	-	12	-	4	-	16	-	4	5	-	
Greenwich West	21034	730	445	117	117	2	37	6	1	20	2	9	-	17	-	14	16	-	
Greenwich East <i>WH</i>	19378	755	733	112	196	1	25	7	4	16	1	7	1	16	-	31	38	380	
Eltham <i>H</i>	4539	157	86	19	23	-	-	6	-	5	-	-	-	4	-	2	2	-	
Lee	16440	522	272	56	75	-	-	6	3	13	-	-	-	5	2	7	10	-	
Lewisham Village <i>WH</i>	11513	618	343	81	92	2	6	17	-	9	-	3	2	13	1	8	10	62	
Sydenham <i>H</i>	19065	794	362	122	70	1	3	9	5	26	-	1	2	22	-	5	5	3	
Charlton <i>H</i>	9564	265	189	29	40	1	6	5	6	3	1	4	-	4	-	9	5	41	
Woolwich Dockyard	17226	564	481	94	57	1	13	2	2	15	1	2	1	8	-	175	181	-	
Woolwich Arsenal <i>WHH</i>	18331	711	613	110	68	-	11	5	7	12	1	6	1	16	-	209	215	9	
Plumstead West	13027	511	208	59	40	-	3	1	8	14	-	-	-	2	-	2	4	-	
Plumstead East <i>W</i>	15232	676	626	123	120	-	18	-	-	19	-	-	-	11	-	185	187	138	

The following WORKHOUSE Establishments receive inmates from other Districts than the one in which they stand, and are indicated in the above Table by *w*:-

Central London Sick Asylum in Tottenham-court sub-district.  
Kentish Town sub-district.  
London City Workhouse in Islington East sub-district.  
Holborn Infirmary " Hackney sub-district.  
London City Workhouse " Hoxton New Town sub-district.  
Holborn " " Mile End Old Town Eastern sub-dist.  
Whitechapel " " Mile End Old Town Eastern sub-dist.

London City Workhouse in { Mile End Old Town Eastern sub-dist. and Bow sub-district.  
Stepney " " Bow sub-district.  
Poplar & Stepney Sick Asylum " " " "  
Westminster Union Industrial School in Battersea sub-district.  
Small-pox and Fever Hospitals in Hampstead, Hackney, and Brixton sub-districts.

† Private Lunatic Asylums in which paupers are received.



TABLE 18 (continued). LONDON—OUTER RING.—POPULATION, BIRTHS, DEATHS from ALL CAUSES, from SMALL-POX, MEASLES, SCARLET FEVER, DIPHThERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLEN also DEATHS in PUBLIC INSTITUTIONS ; registered in each SUB-DISTRICT during the 52 Weeks ending Satur 28th December 1878.

Regis- tration District and Sub- district Num- bers.	REGISTRATION SUB-DISTRICTS.	Area in Acres.	Enumerated Population, 1871.	BIRTHS.	DEATHS.	The DEATHS registered in the 52 Weeks include												
						Deaths of		Deaths from										
						Infants under 1 Year of Age.	Persons aged 60 Years & upwds.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhœa.	Cholera.	Violence.	Inquest Cases.	
	LONDON—OUTER RING	368,414	631,381	27,804	15,187	3891	3701	151	221	308	165	527	206	706	18	459	719	
29 : 1	Carshalton W - - -	12228	13523	512	421	61	121	1	7	-	2	5	3	10	-	8	8	
2	Epsom (part of)* WH -	9971	9145	265	179	39	55	-	-	2	-	2	-	6	-	4	5	
36 : 1	Godstone (part of) * -	2754	900	40	9	3	2	-	-	-	-	-	-	-	-	-	1	
37 : 1	Croydon WWH - - -	20851	71319	2878	1516	374	399	5	20	18	40	47	22	68	2	41	60	
2	Mitcham WH - - -	11697	12534	474	246	68	65	1	1	4	1	13	7	8	2	6	11	
38 : 1	Wimbledon HH - - -	3220	9087	410	183	50	51	1	4	4	2	7	3	9	1	7	9	
2	Kingston WH - - -	8549	27489	1076	571	128	179	2	4	1	3	9	3	21	2	26	33	
3	Esher (part of) * - -	6601	7353	264	130	27	37	-	2	-	-	8	1	6	-	11	12	
4	Hampton H - - -	4573	10185	401	211	50	48	-	8	2	1	4	3	13	-	5	12	
39 : 1	Richmond WH - - -	2271	16829	583	380	90	123	-	3	2	1	9	6	19	-	18	23	
2	Mortlake - - -	2961	9316	374	149	44	39	-	1	-	4	5	1	6	-	7	10	
40 : 1	Bromley (part of) * HH -	15669	19509	917	372	107	76	1	5	5	4	15	7	20	1	13	15	
2	Chislehurst (part of) * W	13665	10028	413	210	59	65	4	2	-	3	5	1	9	1	5	6	
41 : 1	Bexley H - - -	13439	19566	790	347	75	95	2	4	7	3	15	6	7	1	16	21	
123 : 1	Sunbury W - - -	11055	9860	332	150	39	31	-	2	-	-	10	5	6	-	6	10	
2	Staines W - - -	13277	10339	398	211	52	74	2	1	2	-	10	1	7	-	6	12	
124 : 1	Hillingdon WH - - -	6029	9712	324	198	37	78	2	-	1	1	2	3	8	-	11	19	
2	Uxbridge - - -	6178	5329	177	87	26	23	-	-	-	-	2	2	4	1	3	6	
3	Hayes WL - - -	14587	10497	292	232	31	81	1	-	1	1	5	-	6	-	5	12	
125 : 1	Isleworth W - - -	7008	19930	692	436	88	163	-	2	5	-	1	8	12	-	9	27	
2	Twickenham - - -	2477	10533	352	198	51	43	3	11	8	1	3	3	6	-	5	11	
3	Brentford HL - - -	4370	20279	767	442	117	90	2	11	36	1	14	5	28	-	16	33	
4	Chiswick - - -	1311	8508	448	233	83	37	1	2	6	1	8	5	21	-	6	13	
5	Acton WH - - -	6087	12633	668	339	106	80	1	11	3	2	18	1	44	-	4	11	
126 : 1	Harrow H - - -	13809	10869	341	169	32	55	-	1	11	3	4	2	4	-	4	14	
2	Edgware H - - -	6994	3450	131	55	8	14	-	-	-	1	-	-	1	-	1	6	
3	Willesden - - -	4383	15869	818	441	155	67	3	7	4	3	35	4	28	-	7	23	
4	Hendon WH - - -	8382	6972	305	205	55	54	-	9	1	1	7	-	8	-	15	22	
127 : 1	South Mimms - - -	15419	5924	177	115	24	37	1	5	-	-	1	-	7	-	11	11	
2	Barnet W - - -	5423	7752	295	186	36	64	4	3	2	1	6	1	8	-	3	8	
3	Finchley L - - -	4688	11493	430	431	47	92	-	5	7	16	9	-	4	-	5	7	
128 : 1	Hornsey H - - -	3039	19357	1111	525	142	99	1	7	14	20	30	7	27	-	7	21	
2	Tottenham H - - -	4642	22869	1160	588	153	145	2	13	21	8	19	9	25	1	20	27	
3	Edmonton WW - - -	7483	13660	655	583	95	244	13	11	12	9	11	15	15	1	10	16	
4	Enfield WH - - -	12653	16054	556	320	81	62	1	1	24	11	2	11	14	-	9	13	
5	Waltham Abbey - - -	11017	5197	161	79	17	16	1	3	1	-	2	-	2	-	5	5	
6	Cheshunt - - -	8493	7518	235	129	26	47	-	-	-	1	1	1	4	-	5	8	
134 : 1	Hatfield (part of) * - -	3180	559	14	4	2	1	-	-	-	-	-	1	-	-	-	-	
136 : 1	Bushey - - -	9028	6472	203	91	22	24	-	-	3	1	-	2	-	-	3	3	
185 : 1	Stratford - - -	882	23286	1460	701	236	90	20	-	37	3	43	10	43	-	18	30	
2	West Ham WWWW - - -	7345	44642	3303	1604	583	169	65	40	33	4	82	26	107	4	34	56	
3	Leyton WW - - -	4274	15513	766	555	112	169	5	6	6	5	15	10	22	-	7	10	
4	Walthamstow H - - -	6619	15701	811	354	91	77	1	1	9	7	18	4	15	-	9	10	
186 : 1	Chigwell (part of) * H -	10483	8169	275	165	41	43	3	-	7	-	8	5	8	1	6	4	
188 : 1	Romford (part of) * - -	6730	2879	135	63	20	16	-	-	3	-	1	1	5	-	2	4	
2	Ilford - - -	8492	5947	251	131	33	32	1	2	6	-	7	1	7	-	-	1	
3	Barking Town - - -	4128	6576	364	193	70	24	1	6	-	-	9	-	8	-	40	40	

\* The parts of sub-districts included within that portion of the Metropolitan Police District which forms the Outer Ring are as follow : 29 : 2, the whole of Epsom sub-district, except the parish of Ashstead (pop. 906) ; 36 : 1, the two parishes of Warlingham and Farley in Godstone sub-district ; 38 : 3, the whole of Esher sub-district, except the parish of Esher (pop. 1815) ; 40 : 1, the whole of Bromley sub-district, except the two parishes of Cudham and Knockholt (pop. 1744) ; 40 : 2, the whole of the Chislehurst sub-district, except the parish of Chelsfield (pop. 903) ; 134 : 1, only the parish of Northaw in Hatfield sub-district ; 186 : 1, the whole of the Chigwell sub-district, except the parish of Thoidon-Beech (pop. 798) ; 188 : 1, only the parish of Dagenham in Romford sub-district.



TABLE 19.—Deaths in London; and Meteorology at Greenwich Observatory. (a)

YEARS.	Total Number of Deaths.	Mean Temperature of Air.	Dryness of Atmosphere.*	Fall of Rain in Inches.	Mean Hourly † Amount of Hori- zontal Movement of the Air by Robinson's Anemometer.
Averages of 39 Years, 1840-1878. }	65,102	° 49·4	° ‡ 5·7	24·3	Miles. § 10·8
Averages of 10 Years, 1840-1849. }	51,976	49·3	5·1	24·3	—
Averages of 10 Years, 1850-1859. }	59,699	49·3	5·9	23·2	10·1
Averages of 10 Years, 1860-1869. }	72,086	49·5	5·7	25·3	10·7
1840 - - - - -	46281	47·7	—	18·3	—
1841 - - - - -	45284	48·7	5·0	33·3	—
1842 - - - - -	45272	49·6	4·6	22·6	—
1843 - - - - -	48574	49·4	3·7	24·6	—
1844 - - - - -	50423	48·6	4·9	24·9	—
1845 - - - - -	48332	47·6	4·4	22·4	—
1846 - - - - -	49089	51·3	5·1	25·3	—
1847 - - - - -	60442	49·5	5·4	17·8	—
1848 - - - - -	57628	50·4	6·4	30·2	—
1849 - - - - -	68432	50·0	6·6	23·9	—
1850 - - - - -	48579	49·3	6·1	19·7	11·0
1851 - - - - -	55354	49·2	6·5	21·6	10·3
1852 - - - - -	54213	50·6	7·4	34·2	10·6
1853 - - - - -	61202	47·7	6·2	29·0	9·5
1854 - - - - -	73697	48·9	4·7	18·7	10·3
1855 - - - - -	61506	47·1	4·5	21·1	9·9
1856 - - - - -	56786	49·0	5·6	22·2	10·6
1857 - - - - -	60150	51·0	5·2	21·4	9·3
1858 - - - - -	63882	49·2	6·5	17·8	9·7
1859 - - - - -	61617	50·7	6·0	25·9	9·5
1860 - - - - -	61821	47·0	4·6	32·0	10·0
1861 - - - - -	65001	49·4	5·0	20·8	9·9
1862 - - - - -	66950	49·5	4·7	26·2	10·0
1863 - - - - -	72346	50·3	6·0	20·0	10·3
1864 - - - - -	77723	48·5	7·0	16·7	9·5
1865 - - - - -	73460	50·3	6·2	29·0	9·3
1866 - - - - -	80129	49·8	5·6	30·5	11·4
1867 - - - - -	70588	48·6	5·6	28·4	11·8
1868 - - - - -	74908	51·6	6·8	25·2	12·2
1869 - - - - -	77933	49·5	5·7	24·0	12·2
1870 - - - - -	77278	48·7	6·7	18·5	11·1
1871 - - - - -	80332	48·7	6·0	22·3	10·5
1872 - - - - -	70893	50·7	5·5	30·0	11·9
1873 - - - - -	76634	48·9	5·4	23·4	11·8
1874 - - - - -	76606	49·4	4·7	20·0	11·5
1875 - - - - -	81513	49·4	5·9	27·3	11·5
1876 - - - - -	77411	50·1	6·4	23·9	12·1
1877 - - - - -	77002	49·7	6·6	26·8	13·0
1878 - - - - -	83695	49·6	5·8	29·2	11·1

NOTE.—This Table does not include the deaths in Wandsworth and Clapham for the years 1840-3; or the deaths in Hampstead and Lewisham for 1840-6.

(a) The deaths in this Table as well as the Meteorology are compiled from the Registrar General's Weekly Returns, which embrace 364 days, or for six years (1847, 1853, 1857, 1863, 1868, and 1873) 371 days; for this reason the figures differ from those which relate to complete years from 1st January to 31st December, published in Table 16.

\* The column headed "Dryness of Atmosphere" is the difference between the dew point temperature and air temperature. The dew point temperature, for any year, may be obtained by subtracting the number in the column, headed "dryness" from the mean temperature in the same period.

† For the years 1850-59 the results are only approximative, having been reduced to Robinson's anemometer from observations made with Whewell's.

‡ Average of 38 years.

§ Average of 29 years.

|| Average of 9 years.

TABLE 20.—Deaths REGISTERED in the Public Institutions of London, 1868-1878.

	1868.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
TOTAL DEATHS IN PUBLIC INSTI- TUTIONS	12326	12298	12300	14665	12029	13101	13359	13946	14073	14936	15502
WORKHOUSES (including the Metropo- litan Asylum Hospitals)	6789	7068	6833	9090	6743	7416	7619	8015	8174	9134	9606
PRISONS	75	83	78	76	57	62	70	77	69	62	46
MILITARY AND NAVAL ASYLUMS *	176	165	86	81	93	66	81	96	79	69	75
GENERAL HOSPITALS	3714	3480	3614	3796	3363	4148	4310	4420	4442	4318	4549
HOSPITALS FOR SPECIAL DISEASES	933	849	981	905	562	584	392	436	483	612	531
LYING-IN HOSPITALS - { Women	15	13	31	16	16	29	18	20	33	34	9
- { Children	46	41	40	37	60	56	62	49	68	43	23
MILITARY AND NAVAL HOSPITALS	163	170	200	218	195	207	206	238	184	203	192
HOSPITALS FOR FOREIGNERS	79	93	102	99	94	128	115	122	100	113	138
LUNATIC ASYLUMS	336	336	335	347	346	405	486	473	441	348	333

\* Previous to the year 1870, the Royal Naval Hospital at Greenwich was classed with the "Military and Naval Asylums"; since that year no In-pensioners have been received there.



TABLE 21.—Deaths in 157 Public Institutions, registered.

			DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS.				
			TOTAL.	Males.	Females.			TOTAL.	Males.	Females.		
TOTAL DEATHS IN 157 PUBLIC INSTITUTIONS				15502	8783	6719						
55 WORKHOUSES - - - - -				9606	5155	4451	BETHNAL GREEN - - - 15; 2. GREEN - - - 317 197 12					
12 PRISONS - - - - -				46	35	11	WHITECHAPEL (WORKHOUSE and INFIRMARY) - - - 16; 2. MILE END NEW TOWN 350 207 14					
2 MILITARY ASYLUMS - - - - -				75	75	-	ST. GEORGE-IN-THE-EAST - 17; 3. ST. JOHN - - - 296 149 1					
40 GENERAL HOSPITALS - - - - -				4549	2772	1777	MILE END OLD TOWN - 19; 2. EASTERN - - - 168 74 5					
27 HOSPITALS FOR SPECIAL DISEASES - - - - -				531	264	267	WHITECHAPEL GROVE - - - (SOUTH) 19; 2. MILE END OLD TOWN EASTERN - - - -					
5 LYING-IN HOSPITALS - - - - - { Women Children - - -				9 23	- 15	9 8	CITY OF LONDON { part of { 19; 2. MILE END OLD TOWN EASTERN - - - 63 - - 6					
5 MILITARY AND NAVAL HOSPITALS - - - - -				192	184	8	{ ditto - 20; 1. BOW - - - - 178 131 4					
3 HOSPITALS FOR FOREIGNERS - - - - -				138	101	37	POPULAR AND STEPNEY SICK ASYLUM - - - 20; 1. BOW - - - - 451 255 19					
8 LUNATIC ASYLUMS - - - - -				333	182	151	STEPNEY (AGED AND INFIRM) 20; 1. BOW - - - - 21 10 1					
							POPULAR - - - - 20; 2. POPULAR - - - - 32 16 1					
							NORTH STREET INFIRMARY - 20; 2. POPULAR - - - - 5 1 4					
PUBLIC INSTITUTIONS.		SUB-DISTRICT in which the Public Institution is situated.										
WORKHOUSES.				WORKHOUSES—continued.								
Paddington - - - 1; 1. St. Mary Paddington				152	73	79	ST. SAVIOUR'S - - - 21; 1. CHRISTCH., SOUTHWRK. 71 67 4					
Kensington (Workhouse and Infirmary) - - - 1; 3. Kensington Town -				280	134	146	Ditto - - - 21; 4. BOROUGH ROAD - 25 16 1					
Fulham - - - - 1a; 3. Fulham - - -				110	56	54	Ditto - - - 21; 7. ST. PETER WALWORTH 500 271 22					
Metrop. Asylum Hosp. - 1a; 3. Fulham - - -				135	76	59	ST. OLAVE'S - - - 22; 2. ST. JOHN HORSLEYDN. 45 22 2					
Chelsea (Workhouse and Infirmary) - - - 2; 2. Chelsea North-west				261	130	131	Ditto - - - 22; 4. ST. MARY MAGDALEN 192 112 8					
St. George's (Fulham Road) 3; 2. Mayfair - - -				280	141	139	Ditto - - - 22; 6. ROTHERHITHE - - 90 50 4					
Ditto (Mount-street) 3; 2. Mayfair - - -				87	48	39	LAMBETH (WORKHOUSE and INFIRMARY) - - - 23; 4. LAMBETH CHURCH 2d 458 258 20					
Ditto (Earl's Court) 3; 5. St. Margaret Westmr.				35	16	19	METROP. ASYLUM HOSPITALS 23; 7. BRIXTON - - - 279 144 13					
Westminster - - - 4; 1. Golden Square -				122	54	68	LAMBETH (for Children) - 23; 8. NORWOOD - - - 3 1 2					
Marylebone (Workhouse and Infirmary) - - - 5; 3. Rectory (Maryleb.)				504	262	242	WANDSWORTH (WORKHOUSE and INFIRMARY) - 24; 2. BATTERSEA - - - 190 113 77					
Hampstead - - - 6; 1. Hampstead - - -				39	19	20	WESTMINSTER INDUSTRIAL SCHOOL - - - 24; 2. BATTERSEA - - - - - -					
Metrop. Asylum Hosp. - 6; 1. Hampstead - - -				234	134	100	CAMBERWELL (WORKHOUSE and INFIRMARY) - - - 25; 2. CAMBERWELL - - - 234 124 110					
Central London Sick Asylum - - - 7; 2. Tottenham-court -				225	123	102	Ditto (NAZARETH HOUSE) - 25; 3. PECKHAM - - - 2 1 1					
Pancras (Workhouse and Supplementary Workh.) - 7; 5. Camden Town -				311	142	169	METROP. ASYLUM HOSPITAL 26; 1. ST. PAUL, DEPTFORD - 162 84 78					
Highgate Infirmary (Central London Sick Asylum) - - - 7; 6. Kentish Town -				232	128	104	GREENWICH - - - 26; 4. GREENWICH EAST - 263 144 119					
Islington (Workhouse and Infirmary) - - - 8; 2. Islington East -				348	178	170	LEWISHAM - - - 27; 3. LEWISHAM VILLAGE - 62 31 31					
Islington (Workhouse and Schools) - - - 8; 2. Islington East -				1	1	-	WOOLWICH (WORKHOUSE and INFIRMARY) - - - 28; 5. PLUMSTEAD EAST - 133 81 57					
Holborn Infirmary (College House) - - - 8; 2. Islington East -				8	-	8						
City of London - - - 8; 2. Islington East -				44	21	23	PRISONS.*					
Hackney - - - 9; 4. Hackney - - -				188	108	80	FEMALE CONVICT PRISON - 1; 7. Fulham - - - 2 - 2					
City of London - - - 9; 4. Hackney - - -				17	6	11	MILLBANK PENITENTIARY - 3; 4. St. John Westmr. - 5 5 -					
Metrop. Asylum Hospitals 9; 4. Hackney - - -				320	160	160	HOUSE OF CORRECTION - 3; 5. St. Margaret Westmr. 5 - 5					
St. Giles (Workhouse and Infirmary) - - - 10; 2. St. Giles South -				185	104	81	PENTONVILLE, Model Prison (Males) - - - 8; 1. Islington West - 3 3 -					
Holborn - - - 12; 2. St. Andrew Eastern				336	199	137	CITY PRISON (HOLLOWAY) - 8; 1. Islington West - 2 2 -					
Ditto (Workhouse and Casual Ward) - 12; 4. St. James Clerknwl.				59	31	28	MIDDLESEX HOUSE OF DETENTION - - - 12; 4. St. James Clerknwl. 6 2 4					
City of London - - - 13; 4. St. Bride - - -				12	5	7	MIDDLESEX HOUSE OF CORRECTION (MALES) - - - 12; 5. Amwell (Holborn) 14 14 -					
Holborn - - - 14; 3. Hoxton New Town -				172	71	101	CITY PRISON (Newgate) - 13; 3. St. Sepulchre - - 2 2 -					
Shoreditch (Workhouse and Infirmary) - - - 14; 5. Haggerston - - -				314	177	137	CONVICT PRISON, SOUTHWK. 21; 4. Borough Road - - - - -					
							COUNTY PRISON - - - 21; 6. Trinity Newington 3 3 -					
							CONVICT PRISON (MALES) - 23; 7. Brixton - - - 2 2 -					
							COUNTY PRISON - - - 24; 3. Wandsworth - - - 2 2 -					
							MILITARY ASYLUMS.					
							ROYAL MILITARY HOSPITAL Chelsea, In-Pensioners } 2; 1. Chelsea South - 75 75 -					
							ROYAL MILITARY ASYLUM, Chelsea, Boys - - - } 2; 1. Chelsea South - - - - -					

NOTE.—The Workhouse Establishments printed in *italics* receive inmates from other Districts than those in which they are situated.  
\* PRISONS.—The deaths of the children of prisoners are not included.  
† ROYAL MILITARY ASYLUMS.—The Deaths of *out-pensioners* of Chelsea Hospital are not included.



during the 52 Weeks ending Saturday, 28th December 1878.

PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICT in which the Public Institution is situated.	DEATHS.		
		TOTAL.	Males.	Females.			TOTAL.	Males.	Females.
GENERAL HOSPITALS.					HOSPITALS FOR SPECIAL DISEASES—continued.				
St. Mary's - - -	1; 2. St. John Paddington	230	139	91	For Women - - -	4; 3. St. Anne Soho -	18	-	18
West London - - -	1a; 2. St. Paul Hammersm.	56	41	15	St. Peter's (Stone) - -	5; 1. All Souls (Maryleb.)	9	9	-
Victoria (Children)	2; 1. Chelsea South -	24	10	14	St. Agnes (Consumption)	5; 1. All Souls (Maryleb.)	5	-	5
Cheyne (Children) -	2; 1. Chelsea South -	2	-	2	Consumptive Home -	5; 4. St. Mary (Maryleb.)	4	-	4
St. Raphael's - - -	2; 2. Chelsea North-west	11	11	-	For Women - - -	5; 5. Christch. (Maryleb.)	10	-	10
St. George's - - -	3; 3. Belgrave - -	366	243	123	Dis. of Nervous System -	5; 6. St. John (Maryleb.)	3	2	1
Belgrave (Children)	3; 3. Belgrave - -	6	5	1	North London Consump- tion - - - -	6; 1. Hampstead - -	12	8	4
Women and Children	3; 4. St. John Westminster.	1	-	1	Throat and Ear - - -	7; 3. Gray's Inn Lane -	4	4	-
Westminster - - -	3; 5. St. Margaret Westm.	150	86	64	London Fever - - -	8; 1. Islington West -	66	38	28
Middlesex - - -	5; 1. All Souls (Maryleb.)	239	122	117	Small-pox - - -	8; 1. Islington West -	59	31	28
Ladies' - - -	5; 2. Cavendish Square -	2	-	2	Hip Diseases - - -	12; 1. St. George the Martyr	3	1	2
Samaritan Free - - -	5; 3. Rectory (Maryleb.)	24	1	23	For Paralyased and Epileptic - - -	12; 1. St. George the Martyr	17	9	8
St. Peter's Home (Kilburn)	6; 1. Hampstead - -	32	1	31	St. Mark's (Fistula) -	12; 8. Old Street - -	2	1	1
University College -	7; 2. Tottenham Court -	233	143	90	Royal for Dis. of Chest -	12; 9. City Road - -	30	20	10
All Saints Institution	7; 2. Tottenham Court -	4	-	4	Royal London Ophthalmic	13; 9. Broad Street - -	1	-	1
London Temperance -	7; 2. Tottenham Court -	5	4	1	Diseases of Chest - -	15; 2. Green - - -	79	56	23
Royal Free - - -	7; 3. Gray's Inn Lane -	81	56	25	LYING-IN HOSPITALS.				
Great Northern - - -	8; 1. Islington West -	33	24	9	Queen Charlotte's - -	5; 4. St. Mary { Women (Maryleb.) { Children	7	-	7
Invalid Asylum - -	9; 1. Stoke Newington -	2	-	2	St. Saviour's - - -	8; 2. Islington { Women East - { Children	2	2	-
Charing Cross - - -	11; 1. St. Martin in-the- Fields - - -	176	128	48	British - - -	10; 2. St. Giles { Women South - { Children	2	-	2
King's College - - -	11; 3. St. Clement Danes -	214	136	78	City of London - - -	12; 9. City Road { Women Children	-	-	-
London Homœopathic -	12; 1. St. George the Martyr - - -	17	10	7	General (York Road) -	23; 2. Waterloo { Women 2d - - { Children	-	-	-
St. John and St. Eliza- beth - - -	12; 1. St. George the Martyr - - -	16	-	16	MILITARY AND NAVAL HOSPITALS.				
Hospital for Sick Chil- dren - - -	12; 1. St. George the Martyr - - -	101	52	49	Guards' - - -	3; 4. St. John Westminster	25	25	-
City Police - - -	13; 1. St. Botolph - -	1	1	-	Seamen's - - -	26; 4. Greenwich East -	117	114	3
St. Bartholomew's - -	13; 3. St. Sepulchre -	570	351	219	Herbert - - -	28; 1. Charlton - -	41	40	1
Convent - - -	14; 2. St. Leonard - -	3	2	1	Garrison Female - -	28; 3. Woolwich Arsenal	9	5	4
Children's - - -	14; 5. Haggerston - -	24	14	10	Arsenal Infirmary - -	28; 3. Woolwich Arsenal	-	-	-
Mildmay Mission - -	15; 1. Hackney Road -	10	5	5	HOSPITALS FOR FOREIGNERS.				
Metropolitan Free - -	16; 1. Spitalfields - -	15	10	5	French - - -	4; 3. St. Anne Soho -	23	17	6
London - - -	16; 5. Whitechapel Church	669	418	251	German - - -	9; 4. Hackney - -	114	84	30
East London Children's	18; 1. Shadwell - -	127	67	60	Spanish and Portuguese Jews' - - - -	19; 2. Mile End Old Town Eastern - - -	1	-	1
Poplar - - -	20; 1. Bow - - -	29	29	-	LUNATIC ASYLUMS.*				
Evelina (Children) -	21; 4. Borough Road -	67	36	31	Metropolitan Asylum for Imbecile Children	9; 4. Hackney - -	24	17	7
Guy's - - -	22; 1. St. Olave - -	561	365	196	St. Luke's Hospital -	12; 9. City Road - -	7	5	2
Royal Infirmary (Women and Children) - - -	23; 1. Waterloo 1st - -	36	17	19	Hoxton House * - -	14; 2. St. Leonard - -	16	4	12
St. Thomas's - - -	23; 3. Lambeth Church 1st	389	238	151	Bethnal House * - -	15; 2. Green - - -	59	34	25
British Home for In- curables - - -	24; 1. Clapham - -	11	3	8	Bethlehem Hospital -	21; 5. London Road -	24	15	9
Royal Hospital for In- curables - - -	24; 3. Wandsworth - -	9	4	5	Surrey County - - -	24; 3. Wandsworth - -	95	46	49
Sick Children - - -	27; 4. Sydenham - -	3	-	3	Peckham House * - -	25; 2. Camberwell - -	46	23	20
HOSPITALS FOR SPECIAL DISEASES.					Camberwell House * -	25; 2. Camberwell - -	62	35	27
Lock (Females) - - -	1; 1. St. Mary Paddington	3	-	3					
Consumptn. & Dis. of Chest	1; 4. Brompton - -	107	57	50					
Cancer - - -	1a; 3. Fulham - -	6	-	6					
Chelsea Home - - -	2; 1. Chelsea South -	1	1	-					
Cancer - - -	2; 2. Chelsea North-west	75	16	59					
For Women - - -	2; 2. Chelsea North-west	2	-	2					
Royal Orthopaedic - -	3; 1. Hanover Square -	2	1	1					
Throat and Ear - - -	4; 1. Golden Square -	7	6	1					
British (Skin) - - -	4; 2. Berwick Street -	1	1	-					
St. John's (Skin) - -	4; 3. St. Anne Soho -	1	1	-					
Dis. of the Heart - -	4; 3. St. Anne Soho -	4	2	2					

\* LUNATIC ASYLUMS.—Private Lunatic Asylums are excluded from this list, except those in which pauper lunatics are received, which are marked with an asterisk.



TABLE 22. LONDON.—Weekly Deaths from Small-pox, Measles, Scarlet Fever, Diphtheria, &c.  
WEEKLY Numbers from Six of these DISEASES during the Thirty-

	SMALL-POX.				MEASLES.				SCARLET FEVER.				DIPHTHERIA.			
	1875	1876	1877	1878	1875	1876	1877	1878	1875	1876	1877	1878	1875	1876	1877	1878
YEAR -	75	735	2544	1416	1427	1741	2347	1510	3651	2297	1576	1792	546	359	317	557
March Quar.	37	7	1192	556	175	667	351	708	570	636	282	457	146	88	70	100
June „	17	26	828	618	295	561	682	337	583	487	253	339	128	93	65	140
Sept. „	15	110	252	133	345	225	438	165	1076	573	327	330	113	85	85	130
Dec. „	6	592	272	109	612	288	876	300	1422	601	714	666	159	93	97	177
Weeks.																
1 - -	5	-	116	26	16	55	28	104	61	83	25	31	7	8	12	10
2 - -	5	-	100	35	12	40	24	97	59	60	23	39	14	9	4	8
3 - -	6	-	79	51	4	52	17	77	58	60	42	35	10	7	5	10
4 - -	5	-	86	34	8	49	22	63	61	79	21	39	7	7	3	10
5 - -	2	1	103	38	9	41	22	56	43	48	23	43	7	9	4	10
6 - -	1	-	90	55	11	37	21	40	46	48	14	37	8	9	7	10
7 - -	1	-	72	47	16	48	18	43	38	40	19	32	14	8	6	10
8 - -	2	2	104	39	15	44	14	40	38	47	16	34	10	2	5	10
9 - -	2	1	84	54	12	57	23	41	36	45	23	35	13	7	4	10
10 - -	3	1	96	34	13	46	33	46	38	35	17	35	16	5	4	10
11 - -	3	1	100	53	18	69	44	32	36	35	15	23	10	9	5	10
12 - -	1	1	76	42	17	63	32	34	24	37	17	22	14	3	3	10
13 - -	1	-	86	48	24	66	53	35	32	19	27	47	16	5	8	10
14 - -	3	-	78	55	19	56	50	30	24	37	16	42	10	6	4	10
15 - -	1	4	60	58	18	44	58	40	23	35	18	36	10	6	5	10
16 - -	1	-	68	80	6	59	41	31	34	46	25	37	6	9	6	10
17 - -	-	-	89	63	11	47	47	38	35	37	14	22	7	9	3	10
18 - -	1	2	54	60	25	53	44	29	35	48	16	27	9	5	2	10
19 - -	-	1	78	48	24	49	45	33	59	31	24	24	13	8	4	10
20 - -	2	1	70	48	23	41	59	28	31	39	20	26	14	5	4	10
21 - -	2	3	69	43	32	40	56	14	42	36	21	17	7	10	3	10
22 - -	2	4	61	40	32	33	69	15	41	45	28	17	11	5	8	10
23 - -	2	2	58	42	24	38	65	18	70	33	19	27	10	8	6	10
24 - -	-	4	55	24	27	40	61	20	53	28	14	24	12	8	7	10
25 - -	2	2	44	19	25	31	42	17	62	46	14	17	12	7	7	10
26 - -	1	3	44	38	29	30	45	24	69	26	24	23	7	7	6	10
27 - -	-	13	23	19	27	25	44	31	58	36	18	19	3	9	9	10
28 - -	4	2	32	11	27	24	28	16	90	35	21	20	10	9	7	10
29 - -	-	8	35	19	35	24	42	13	96	35	19	21	11	10	6	10
30 - -	1	7	27	11	44	28	51	21	87	38	25	27	6	9	4	10
31 - -	3	1	22	18	41	21	51	19	73	36	15	26	10	9	8	10
32 - -	1	9	20	14	36	22	43	14	87	42	21	26	7	4	6	10
33 - -	1	5	21	9	27	25	49	10	59	46	24	27	9	3	12	10
34 - -	1	10	11	10	22	10	29	10	71	57	24	24	10	8	2	10
35 - -	2	8	20	6	22	11	17	7	99	41	26	29	9	1	5	10
36 - -	2	5	8	3	25	11	23	10	71	50	17	30	5	6	7	10
37 - -	-	16	10	7	15	8	23	6	82	50	38	27	9	6	7	10
38 - -	-	11	10	4	13	7	22	2	90	43	30	24	12	6	8	10
39 - -	-	15	13	2	11	9	16	6	113	59	49	30	12	5	4	10
40 - -	-	11	14	4	21	19	23	19	110	57	38	34	15	6	2	20
41 - -	1	16	14	5	23	7	33	13	122	57	50	33	9	8	11	17
42 - -	-	22	8	5	34	18	36	10	127	60	68	45	11	4	9	12
43 - -	1	15	14	4	24	8	67	18	128	60	64	46	17	8	6	12
44 - -	1	21	9	3	40	18	47	15	129	35	82	49	12	3	9	10
45 - -	1	48	25	9	43	19	62	18	116	32	67	60	12	8	6	11
46 - -	1	52	14	16	51	16	66	22	96	55	61	64	14	6	8	13
47 - -	-	43	27	7	54	27	82	18	120	42	55	54	7	10	11	11
48 - -	-	67	31	8	59	31	81	28	104	41	52	70	16	9	5	7
49 - -	-	50	25	4	69	24	76	28	103	42	46	62	13	8	5	9
50 - -	1	75	31	17	68	31	92	34	107	54	54	46	8	6	10	14
51 - -	-	97	31	14	56	30	102	43	85	37	46	55	9	8	3	18
52 - -	-	75	29	13	70	40	109	34	75	29	31	48	16	9	12	22
53 - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Whooping-cough, Fever, and Diarrhoea, during the Four Years 1875-1878; and the AVERAGE Years 1840-1878, and from Diphtheria during the Nineteen Years 1860-1878.

WHOOPING-COUGH.				FEVER.				DIARRHŒA.				WEEKLY AVERAGE in 39 Years, 1840-78.							YEAR.
1875	1876	1877	1878	1875	1876	1877	1878	1875	1876	1877	1878	Small-pox.	Measles.	Scarlet Fever.	Diphtheria (19 years).	Whooping- cough.	Fever.	Diarrhoea.	
232	2739	1780	4446	1282	1176	1249	1361	3198	3518	2479	3651	20	29	47	9	44	40	48	
759	1229	478	1376	372	268	259	355	210	184	182	160	23	28	37	9	58	40	13	March Qr.
979	880	563	1600	307	263	252	293	436	231	261	280	23	31	34	8	52	37	18	June „
732	356	331	943	281	264	291	299	2128	2842	1766	2932	15	24	49	8	31	39	136	Sept. „
762	274	403	527	322	381	447	414	424	261	270	279	17	34	67	10	36	45	24	Dec. „
Weeks.																			
52	69	32	89	33	30	22	28	10	20	18	9	24	39	50	9	51	42	13	- - 1
53	100	25	69	43	16	22	33	13	14	16	17	23	35	46	9	52	43	14	- - 2
55	95	31	94	34	20	18	21	13	16	18	8	26	32	46	9	57	41	13	- - 3
39	88	40	117	31	23	21	32	20	15	11	13	24	28	41	8	59	41	13	- - 4
47	109	41	89	27	22	20	20	9	12	18	11	25	25	37	9	59	41	14	- - 5
62	100	44	114	23	18	20	28	15	10	11	22	25	24	37	9	60	40	14	- - 6
56	130	38	124	29	17	18	30	14	13	16	14	24	22	37	9	58	40	13	- - 7
71	88	38	100	24	15	17	24	16	17	14	11	23	25	36	8	58	39	14	- - 8
58	80	40	112	23	19	16	27	18	18	22	11	23	24	35	9	59	37	14	- - 9
55	80	28	102	27	18	25	28	16	16	10	7	22	25	33	8	59	40	13	- - 10
60	84	36	84	33	30	21	27	20	16	10	13	22	25	31	8	60	41	12	- - 11
59	91	37	124	15	15	25	29	22	10	11	13	21	27	30	8	61	37	12	- - 12
92	112	48	158	30	25	14	28	24	7	7	11	21	28	32	9	65	41	12	- - 13
95	85	69	146	28	22	27	29	24	19	9	9	23	29	30	7	63	37	12	- - 14
76	83	42	157	20	18	12	32	22	16	13	14	23	29	31	9	63	38	12	- - 15
85	98	46	123	23	18	26	26	13	17	11	18	24	28	33	8	60	40	13	- - 16
96	94	30	136	30	23	18	24	15	7	12	11	24	27	31	9	57	39	12	- - 17
71	75	43	117	29	16	21	29	11	15	9	23	24	29	32	6	55	38	12	- - 18
86	79	58	110	23	25	16	14	15	6	20	7	22	30	32	8	55	36	12	- - 19
91	65	59	102	25	20	12	22	15	15	22	21	24	31	33	8	54	37	13	- - 20
75	59	34	116	20	25	24	20	23	14	13	16	25	31	35	7	53	37	14	- - 21
71	76	41	152	25	21	16	15	29	13	13	20	21	33	36	9	50	37	16	- - 22
64	60	40	135	23	22	16	22	31	14	16	25	23	33	38	8	47	37	18	- - 23
53	42	38	101	22	22	16	22	54	16	27	21	22	33	34	8	42	37	23	- - 24
62	36	35	108	27	14	22	19	77	30	46	23	21	32	39	9	42	35	34	- - 25
54	28	28	97	12	17	26	19	107	49	50	72	21	31	38	8	40	35	48	- - 26
53	26	35	108	15	20	19	17	179	116	96	145	18	31	39	8	38	36	73	- - 27
61	42	46	85	26	12	21	19	204	249	169	249	18	28	40	8	37	37	106	- - 28
58	29	36	106	22	20	21	19	138	457	173	339	17	28	40	8	37	37	149	- - 29
63	46	23	101	23	19	24	21	137	522	184	434	16	29	42	7	35	38	194	- - 30
54	38	21	89	9	16	22	21	132	401	176	470	15	28	44	7	33	36	198	- - 31
50	25	29	77	22	19	15	32	147	294	166	339	14	25	46	7	33	37	190	- - 32
68	26	18	60	18	24	28	17	181	232	194	263	14	25	46	8	28	39	176	- - 33
53	21	17	74	24	15	19	16	215	198	158	195	14	23	49	8	27	39	160	- - 34
60	32	19	56	29	19	18	23	188	134	154	148	14	21	51	9	28	41	143	- - 35
69	24	19	54	26	15	21	25	190	99	87	120	13	20	56	8	27	41	125	- - 36
50	17	32	37	24	21	30	32	147	53	86	89	13	19	60	9	26	43	102	- - 37
49	16	18	43	18	37	31	30	125	45	71	80	13	20	61	9	25	44	84	- - 38
44	14	18	53	25	27	22	27	145	42	52	61	12	20	68	8	26	43	71	- - 39
47	8	21	40	29	34	19	28	105	35	36	45	14	23	71	11	27	43	54	- - 40
37	14	10	52	29	38	29	34	78	34	48	37	14	23	74	10	26	44	45	- - 41
47	15	21	33	26	28	47	30	41	16	25	36	13	26	73	10	27	46	35	- - 42
49	18	28	33	24	30	39	30	35	18	23	30	14	26	75	9	28	46	29	- - 43
51	14	24	22	23	22	39	34	24	31	19	21	14	30	74	9	31	46	24	- - 44
49	22	15	33	20	24	42	36	24	16	12	26	16	32	71	9	31	44	20	- - 45
63	27	23	43	27	33	28	37	30	16	23	11	18	34	72	10	34	46	18	- - 46
55	23	32	31	25	32	38	24	14	7	13	15	16	37	70	11	36	45	16	- - 47
54	25	27	39	29	30	36	52	13	16	16	14	19	41	66	11	39	46	16	- - 48
75	28	36	42	26	30	27	29	17	15	19	9	19	41	63	10	43	46	15	- - 49
88	23	25	47	24	28	26	33	15	19	10	11	20	41	61	10	45	47	14	- - 50
71	23	64	50	20	25	41	23	12	17	14	14	21	43	53	11	46	44	13	- - 51
76	34	82	62	20	27	36	24	16	21	12	10	23	40	51	11	50	42	13	- - 52
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- - 53



Deaths at different Ages in London.

TABLE 23.—Temperature at Greenwich, Total Deaths, and Deaths at Seven groups of Ages in London, in each Week of the Year 1878.

POPULATION estimated to the middle of 1878 - -					3,577,304	107,368	357,216	1,062,354	1,193,756	634,171	208,644	13,795
of Number Week.	WEEK ENDING	TEMPERATURE.			AGES AT DEATH.							
		Mean.	Highest Reading by Day.	Lowest Reading by Night.	ALL AGES.	Under 1 Year of Age.	1-5	5-20	20-40	40-60	60-80	80 and up- wards
	YEAR (of 52 Weeks)	° 49·6	° 85·8	° 12·2	83,695	21,176	15,224	5,699	10,889	13,716	14,065	2,926
	March Quarter	41·5	60·5	25·1	22,803	5,040	4,539	1,544	2,894	3,740	4,151	895
	June "	54·6	85·8	26·9	20,056	4,626	4,045	1,506	2,755	3,318	3,169	637
	September "	60·8	84·6	38·2	19,689	6,783	3,250	1,171	2,402	2,854	2,704	525
	December "	41·6	74·5	12·2	21,147	4,727	3,390	1,478	2,838	3,804	4,041	869
	1878.											
1	January 5	43·9	51·5	32·0	1892	436	378	97	244	317	345	75
2	" 12	36·9	47·3	25·7	1760	380	363	124	230	288	309	66
3	" 19	42·9	54·2	28·0	1903	416	397	103	240	298	373	74
4	" 26	42·3	54·8	29·4	1864	409	365	125	203	335	359	68
5	February 2	36·2	42·8	29·7	1703	318	342	128	248	276	320	71
6	" 9	35·1	43·1	25·1	1813	393	344	118	245	305	326	82
7	" 16	42·6	53·7	32·4	1927	412	340	144	246	331	376	78
8	" 23	46·5	60·5	36·2	1756	397	326	116	212	263	353	84
9	March 2	48·7	56·8	41·1	1637	381	333	109	202	254	297	61
10	" 9	46·6	57·3	34·0	1580	370	331	106	216	249	260	48
11	" 16	40·5	51·9	27·8	1526	352	301	114	196	245	257	61
12	" 23	43·3	54·6	25·1	1676	336	351	117	198	283	276	65
13	" 30	35·5	48·5	26·0	1766	390	368	141	214	296	295	62
14	April 6	40·4	56·7	26·9	1877	381	402	117	230	346	323	78
15	" 13	46·0	62·6	32·1	1895	415	403	136	234	293	343	71
16	" 20	51·5	64·3	41·5	1773	379	375	145	241	279	295	59
17	" 27	51·2	65·5	39·1	1661	394	357	125	218	236	232	49
18	May 4	55·5	70·1	39·6	1545	371	286	118	235	240	252	43
19	" 11	56·7	69·1	44·4	1383	306	296	107	213	215	206	40
20	" 18	58·0	73·8	47·8	1380	303	261	106	194	258	215	43
21	" 25	51·8	65·5	38·2	1381	317	274	116	192	225	208	49
22	June 1	52·7	66·0	40·2	1419	346	295	120	218	212	183	45
23	" 8	57·1	72·4	40·7	1481	353	296	124	178	254	240	36
24	" 15	55·7	71·1	44·6	1300	341	250	93	181	190	210	35
25	" 22	59·0	80·1	45·9	1391	328	266	93	203	260	210	31
26	" 29	70·7	85·8	54·5	1570	392	284	106	218	260	252	58
27	July 6	60·1	76·7	44·0	1511	469	292	106	183	222	199	40
28	" 13	61·9	76·1	52·0	1589	598	279	80	160	225	213	34
29	" 20	66·8	84·6	49·2	1787	700	296	87	187	227	243	47
30	" 27	65·2	81·4	54·2	1792	758	302	101	186	204	209	32
31	August 3	60·5	74·8	47·6	1877	812	297	85	205	227	217	34
32	" 10	65·9	79·3	54·7	1694	676	256	100	187	227	208	40
33	" 17	62·2	76·6	50·7	1517	534	227	95	176	205	233	47
34	" 24	61·5	76·4	51·7	1433	492	232	81	191	194	202	41
35	" 31	61·8	73·4	52·1	1365	397	219	105	163	217	215	49
36	September 7	61·2	76·4	49·7	1260	354	213	81	174	207	189	42
37	" 14	59·1	77·7	45·0	1259	331	214	84	193	211	187	39
38	" 21	54·4	68·6	38·3	1250	326	195	76	183	231	198	41
39	" 28	52·2	67·3	38·2	1355	336	228	90	214	257	191	39
40	October 5	55·8	74·5	38·5	1355	380	208	89	188	230	216	44
41	" 12	56·9	69·1	42·7	1418	344	231	104	198	241	241	59
42	" 19	51·9	62·4	36·4	1369	378	228	89	194	223	206	51
43	" 26	50·3	65·4	39·5	1446	355	263	102	196	251	234	45
44	November 2	41·0	51·8	31·8	1386	376	218	85	187	252	225	43
45	" 9	38·8	46·2	30·7	1590	367	282	85	206	285	304	61
46	" 16	39·8	50·8	31·3	1665	369	282	120	216	282	326	70
47	" 23	40·6	49·0	32·9	1547	345	247	111	181	277	327	59
48	" 30	39·0	53·2	27·7	1624	366	267	131	176	303	309	72
49	December 7	36·3	42·4	29·1	2016	373	289	216	364	376	331	67
50	" 14	28·4	34·4	20·5	1698	346	279	104	201	294	383	91
51	" 21	31·2	40·6	21·3	2133	407	316	138	296	410	465	101
52	" 28	32·7	46·9	12·2	1900	321	280	104	235	380	474	106



TABLE 24.—Births and Deaths Registered in London; and Meteorology at Greenwich, in each of the 52 Weeks of 1878.

O. f Week.	Week ending	BIRTHS.			DEATHS.			Mean Tem- pera- ture of the Air.	Mean of the		Dryness of Atmo- sphere.*	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air in each Week.†	Sun above Horizon in Hours.	Regis- tered Sunshine in Hours.
		Total.	Males.	Femls.	Total.	Males.	Femls.		Highest Readings of the Thermo- meter.	Lowest Readings of the Thermo- meter.					
1	1878.												Miles.		
1	Jan. 5	2878	1460	1418	1892	926	966	43°9	47°1	39°7	2°5	0·48	11·4	55·1	3·5
2	" 12	2681	1342	1339	1760	863	897	36°9	41°1	32°5	5°0	0°02	11·1	56°5	8·1
3	" 19	2563	1274	1289	1903	971	932	42°9	47°9	36°8	4°8	0°02	13°5	58°1	6·5
4	" 26	2430	1245	1185	1864	951	913	42°3	46°7	37°5	5°8	0°11	23°0	60°4	11·6
5	Feb. 2	2560	1319	1241	1703	848	855	36°2	40°8	31°0	3°7	0°42	9°5	62°9	11·8
6	" 9	2584	1330	1254	1813	900	913	35°1	38°5	31°9	2°3	0°05	5°2	65°7	3·8
7	" 16	2447	1253	1194	1927	980	947	42°6	48°0	36°4	2°7	0°80	9°5	63°7	8·2
8	" 23	2630	1348	1282	1756	872	884	46°5	52°7	41°5	5°0	0°03	9°5	71°9	15·8
9	March 2	2441	1221	1220	1637	816	821	48°7	53°4	44°4	5°6	0°34	16°0	75°0	4·2
10	" 9	2691	1388	1303	1580	828	752	46°6	53°1	41°3	8°7	0°00	18°2	78°3	19·4
11	" 16	2552	1292	1260	1526	792	734	40°5	48°3	33°7	7°7	0°09	12°0	81°4	19·1
12	" 23	2721	1401	1320	1676	840	836	43°3	50°5	37°3	7°7	0°00	9°8	84°7	9·9
13	" 30	2391	1210	1181	1766	894	872	35°5	44°6	29°1	7°0	0°71	15°9	88°0	18·2
14	April 6	2613	1321	1292	1877	981	896	40°4	50°3	31°8	6°4	0°38	12°9	91°2	34·6
15	" 13	2581	1319	1262	1895	1000	895	46°0	54°1	38°0	7°7	2°85	15°5	94°5	45·4
16	" 20	2418	1266	1152	1773	918	855	51°5	61°0	44°4	4°5	0°73	8°3	97°5	17·9
17	" 27	2640	1320	1320	1661	877	784	51°2	61°6	44°0	6°2	0°20	12°3	100°5	40·6
18	May 4	2702	1365	1337	1545	839	706	55°5	66°5	47°0	7°2	0°66	8°9	103°4	35·8
19	" 11	2443	1226	1217	1383	727	656	56°7	66°6	48°3	6°7	2°10	9°1	106°2	33·5
20	" 18	2514	1271	1243	1380	716	664	53°0	67°6	50°7	8°1	0°63	16°1	108°7	43·3
21	" 25	2349	1196	1153	1381	754	627	51°8	62°2	44°2	7°1	0°81	15°4	111°1	36·4
22	June 1	2539	1293	1246	1419	712	707	52°7	62°4	45°5	6°0	0°39	8°5	112°9	29·3
23	" 8	2441	1287	1154	1481	774	707	57°1	68°0	48°1	6°7	0°80	6°8	114°5	25·3
24	" 15	2120	1089	1031	1300	662	638	55°7	64°6	49°1	7°2	1°28	14°8	115°4	39·8
25	" 22	2625	1352	1273	1391	727	664	59°0	71°3	48°0	8°1	0°99	5°8	116°1	42·4
26	" 29	2268	1168	1100	1570	778	792	70°7	82°8	57°9	13°5	0°61	7°5	115°8	73·9
27	July 6	2520	1286	1234	1511	809	702	60°1	70°3	51°7	7°1	0°94	9°9	115°1	21·6
28	" 13	2394	1222	1172	1589	864	725	61°9	71°8	54°0	9°9	0°02	10°6	113°8	33·3
29	" 20	2364	1210	1154	1787	913	874	66°8	78°9	54°6	10°0	0°00	6°5	112°2	56·4
30	" 27	2414	1243	1171	1792	938	854	65°2	76°0	58°1	6°3	0°21	9°1	110°2	37·6
31	August 3	2637	1370	1267	1877	966	911	60°5	71°5	52°6	7°3	0°25	10°8	107°8	30·7
32	" 10	2241	1142	1099	1694	890	804	65°9	76°3	56°9	8°1	2°22	8°8	105°2	54·5
33	" 17	2421	1255	1166	1517	793	724	62°2	73°2	54°9	6°6	1°03	14°8	102°3	41·1
34	" 24	2491	1244	1247	1433	737	696	61°5	70°6	54°4	6°6	0°71	7°7	99°4	21·5
35	" 31	2404	1251	1153	1365	711	654	61°8	71°5	56°0	4°6	1°15	11°4	96°4	27·5
36	Sept. 7	2416	1233	1183	1260	639	621	61°2	72°1	52°8	5°7	0°00	7°3	93°1	31·2
37	" 14	2373	1202	1171	1259	645	614	59°1	71°0	49°8	6°4	0°02	7°6	90°0	40·1
38	" 21	2491	1335	1156	1250	635	615	54°4	64°0	47°0	6°7	0°49	16°6	86°9	34·6
39	" 28	2494	1262	1232	1355	693	662	52°2	61°0	44°0	4°5	0°19	8°9	83°6	9·6
40	October 5	2429	1246	1183	1355	740	615	55°8	66°1	47°6	5°9	0°13	8°2	80°5	41·0
41	" 12	2358	1171	1187	1418	692	726	56°9	64°2	51°3	6°8	0°54	15°4	77°3	31·3
42	" 19	2558	1287	1271	1369	707	662	51°9	58°0	45°5	4°7	0°00	6°5	74°2	18·0
43	" 26	2500	1304	1196	1446	744	702	50°3	58°2	44°3	4°6	0°98	13°3	71°1	15·6
44	Nov. 2	2532	1277	1255	1386	726	660	41°0	47°1	35°4	3°0	0°14	11°4	68°0	11·2
45	" 9	2607	1339	1268	1590	790	800	38°8	44°4	32°9	4°5	0°10	13°9	65°1	15·5
46	" 16	2448	1232	1216	1665	845	820	39°8	43°3	35°6	2°9	1°74	16°8	62°5	4·8
47	" 23	2530	1283	1247	1547	796	751	40°6	44°7	36°6	4°4	0°12	9°7	60°0	11·8
48	" 30	2427	1235	1192	1624	813	811	39°0	43°6	34°6	2°2	1°48	11°5	57°7	4·1
49	Dec. 7	2576	1294	1282	2016	982	1034	36°3	38°8	32°6	3°8	0°23	11°0	56°1	3·4
50	" 14	2397	1263	1134	1698	877	821	28°4	31°9	25°3	2°1	0°00	5°5	54°9	3·6
51	" 21	2578	1323	1255	2133	1041	1092	31°2	34°8	26°4	2°2	0°09	9°3	54°1	1·0
52	" 28	1762	879	883	1900	933	967	32°7	37°6	24°9	1°5	0°50	9°9	54°2	3·6

The column headed "Dryness of Atmosphere" is the difference between the dew point temperature and air temperature. The mean point temperature, for any week, may be obtained by subtracting the number in the column headed "dryness" from the mean temperature in the same period.

† By Robinson's Anemometer, adopted in place of Whewell's, which was used formerly.

TABLE 25.—Greenwich Meteorological Elements for the Year 1878. By J. GLAISHER, Esq., F.R.S.

1878. MONTHS.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.							Departure from Average of 107 Years. (1771-1877.)	Mean Temperature of the Dew Point.	Mean Tension of Vapour.	Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required for Saturation.	Mean Degree of Humi- dity. Saturation = 100.	Mean Weight of a Cubic Foot of Air.	RELATIVE PROPORTIONS OF WIND.				Mean Amount of Cloud.	RAIN.	
		Highest by Day.	Lowest by Night.	Range in Month.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean for the Month.								N.	E.	S.	W.		Number of Days it fell.	Amount collected.
January -	in. 29°979	54°8	25°7	29°1	44°7	35°6	9°1	40°4	+3°9	36°0	0°212	2°4	0°5	84	556	10	2	9	10	7°6	11	0°87
February -	30°101	60°5	25°1	35°4	47°1	37°4	9°7	42°2	+3°5	38°5	0°233	2°5	0°4	87	556	6	5	9	8	7°7	12	1°10
March -	29°890	57°3	24°3	33°0	49°5	36°0	13°5	42°0	+0°9	34°3	0°198	2°3	0°8	75	552	11	4	3	13	7°2	11	1°06
April -	29°663	69°7	26°9	42°8	57°9	40°3	17°6	48°2	+2°1	42°0	0°266	3°0	0°8	79	541	4	9	11	6	6°0	15	4°31
May -	29°618	73°8	38°2	35°6	65°3	47°5	17°8	55°2	+2°7	48°1	0°332	3°8	1°1	78	532	3	4	13	11	6°6	22	4°31
June -	29°770	85°8	40°7	45°1	71°3	50°8	20°5	60°3	+2°1	51°8	0°387	4°3	1°5	74	530	4	9	9	8	5°7	14	4°57
July -	29°863	84°6	44°0	40°6	73°9	54°3	19°6	63°1	+1°5	54°7	0°430	4°8	1°6	75	528	13	7	2	9	6°4	9	0°30
August -	29°586	79°3	50°7	28°6	72°9	55°4	17°5	62°7	+0°9	56°1	0°450	5°0	1°4	79	523	2	8	14	7	6°4	19	5°39
September -	29°819	77°7	38°2	39°5	66°9	48°6	18°3	56°7	+0°4	50°9	0°373	4°2	1°0	81	534	7	2	6	15	5°8	9	0°82
October -	29°602	74°5	31°8	42°7	59°0	45°0	14°0	51°5	+1°9	46°4	0°317	3°5	0°8	83	536	2	9	10	10	6°1	13	1°66
November -	29°571	53°2	27°7	25°5	44°2	34°9	9°3	39°7	+2°6	36°2	0°214	2°5	0°4	88	549	14	7	3	6	7°7	15	3°45
December -	29°546	55°4	12°2	43°2	37°4	29°0	8°4	33°7	+5°4	31°2	0°175	2°1	0°2	89	555	7	6	6	12	8°2	16	1°16
Means	29°751	68°9	32°1	36°8	57°5	42°9	14°6	49°6	+0°9	43°8	0°299	3°4	0°9	81	541	83	72	95	115	6°8	166	29°00
																Sums.				Sum	Sum	



TABLE 26.—METEOROLOGICAL TABLE FOR LONDON, 1878.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer Royal, and compiled from Quarterly Tables, furnished to the Registrar General by James Glaisher, Esq., F.R.S.)

	Temperature of										Elastic Force of Vapour.		Weight of Vapour in a Cubic Foot of Air.		Degree of Humidity.		Reading of Barometer.		Weight of a Cubic Foot of Air.		Rain.		Reading of Thermometer on Grass.			
	Air.				Evapora- tion.		Dew Point.		Air— Daily Range.		Mean.	Diff. from Average of 37 Years.	Mean.	Diff. from Average of 37 Years.	Mean.	Diff. from Average of 37 Years.	Mean.	Diff. from Average of 37 Years.	Amount.	Diff. from Average of 63 Years.	At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.	
	Mean.	Diff. from Average of 107 Years.	Diff. from Average of 37 Years.		Mean.	Diff. from Average of 37 Years.	Mean.	Diff. from Average of 37 Years.	Mean.	Diff. from Average of 37 Years.																
Winter . . . Jan., Feb., March.																										
Spring . . . April, May, June.																										
Summer . . . July, Aug., Sept.																										
Autumn . . . Oct., Nov., Dec.																										
1878.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
YEAR	49·6	+1·0	+0·3	46·8	+0·2	43·8	+0·2	14·6	—1·3	0·299	+0·004	3·4	0·0	81	0	29·751	—0·086	541	—1	29·2	+3·8	81	114	170	12·2	60·2
First Quarter	41·5	+2·8	+1·7	39·1	+1·1	36·3	+0·8	10·8	—1·1	0·214	+0·006	2·5	0·0	82	—2	29·990	—0·023	555	+3	3·1	—2·0	39	34	17	13·5	48·0
Second do. . .	54·6	+2·3	+1·7	50·9	+1·7	47·3	+1·9	18·7	—1·4	0·328	+0·021	3·7	+0·2	77	+1	29·684	—0·104	534	—4	13·2	+7·6	8	25	58	23·0	54·5
Third do. . .	60·8	+0·9	+0·6	57·1	+0·8	53·9	+1·0	18·5	—1·4	0·418	+0·014	4·7	+0·2	78	+1	29·756	—0·044	528	—2	6·5	—0·9	0	12	80	31·6	60·2
Fourth do. . .	41·6	—2·0	—3·0	40·0	—2·7	37·9	—2·9	10·6	—1·4	0·235	—0·025	2·7	—0·3	87	—1	29·573	—0·173	547	0	6·4	—0·9	34	43	15	12·2	52·1

In this Table, + and — respectively signify that the numbers in the preceding column are above or below the average to the extent of the quantities to which these signs are prefixed.



TABLE 27.—Number of Houses, &c. supplied by the several London Water Companies during each MONTH of the Year 1878; also the Average Daily Supply of Water in GALLONS by the several COMPANIES during each MONTH. (Compiled from Returns furnished by the several Companies during the Year.)

COMPANIES.	NUMBER OF HOUSES, &c. SUPPLIED IN											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
<b>Total Houses supplied</b>	-	-	-	-	-	-	-	-	-	-	-	-
FROM THAMES	541,265	541,779	541,894	544,381	544,217	545,040	547,987	549,801	549,726	551,972	553,394	553,975
FROM LEA AND FROM OTHER SOURCES	254,512	254,964	255,659	256,903	257,295	257,916	258,497	259,032	259,713	260,472	261,807	262,210
	286,753	286,815	286,235	287,478	286,922	287,124	289,490	290,769	290,013	291,500	291,587	291,765
FROM THAMES.												
CHELSEA	28,859	28,859	28,859	29,014	29,014	29,014	29,014	29,014	29,014	29,152	29,438	29,438
WEST MIDDLESEX	50,200	50,280	50,422	50,562	50,677	50,766	50,896	50,960	51,110	51,251	51,421	51,493
SOUTHWARK AND VAUXHALL	79,567	79,809	80,159	80,375	80,431	80,785	81,000	81,260	81,575	81,839	82,036	82,183
GRAND JUNCTION	87,910	87,910	87,910	88,462	88,462	88,462	88,462	88,462	88,462	88,462	88,989	88,989
LAMBETH	57,976	58,126	58,309	58,490	58,711	58,889	59,125	59,336	59,552	59,778	59,923	60,107
FROM LEA AND OTHER SOURCES.												
NEW RIVER	126,178	126,210	126,300	126,563	126,629	126,725	126,987	127,127	127,267	127,577	127,561	127,673
EAST LONDON	115,143	115,143	115,143	115,143	115,143	115,143	117,084	117,084	117,084	117,084	117,084	117,084
KENT	45,432	45,432	44,792	45,772	45,150	45,256	45,419	46,558	45,662	46,839	46,942	47,008
<b>Total Quantities supplied</b>	-	-	-	-	-	-	-	-	-	-	-	-
FROM THAMES	117,475,799	117,265,890	120,026,106	118,335,453	125,453,161	130,142,204	147,960,686	144,956,441	137,639,505	135,676,172	130,876,054	130,086,702
FROM LEA AND FROM OTHER SOURCES	58,480,063	58,506,255	60,589,557	59,302,563	62,788,068	65,215,281	75,266,172	72,204,470	69,613,872	68,244,356	65,662,414	64,893,002
	58,995,736	58,759,635	59,436,549	59,032,890	62,665,093	64,926,923	72,694,514	72,751,971	68,025,633	67,431,816	65,213,640	65,193,700
FROM THAMES.												
CHELSEA	7,439,200	7,540,200	7,840,600	8,182,300	8,723,200	8,726,500	9,505,400	8,870,300	8,745,700	8,157,100	7,789,300	7,531,400
WEST MIDDLESEX	8,986,942	8,935,187	9,393,895	9,300,265	10,187,794	10,571,009	11,540,394	10,549,687	10,063,903	9,898,593	9,421,685	9,487,730
SOUTHWARK AND VAUXHALL	18,100,000	18,400,000	18,550,000	18,200,000	18,350,000	19,400,000	25,196,388	25,294,031	24,198,933	24,539,091	23,810,992	23,898,285
GRAND JUNCTION	11,012,121	11,183,968	11,396,642	10,693,898	12,333,974	12,698,372	13,838,650	12,737,652	12,171,836	11,455,529	11,830,637	11,222,887
LAMBETH	12,941,800	12,447,200	13,408,400	12,926,100	13,188,100	13,819,400	15,184,800	14,702,800	14,433,500	14,194,043	12,809,800	12,752,700
FROM LEA AND OTHER SOURCES.												
NEW RIVER	26,198,000	25,501,000	26,214,000	26,315,000	28,305,000	28,461,000	31,779,000	31,091,000	29,205,000	28,878,000	27,583,000	25,961,000
EAST LONDON	23,033,800	26,136,800	25,986,000	25,576,590	26,400,000	28,120,970	31,456,792	32,447,800	29,895,800	29,710,000	29,651,000	31,105,700
KENT	6,763,936	7,121,835	7,236,549	7,141,300	7,960,093	8,344,953	9,458,722	9,213,171	8,924,833	8,843,816	7,979,640	8,127,000

Note.—The quantities of water in the above Table include the supply for various purposes other than for domestic consumption.



Thames water was so much polluted as to be unfit for dietetic purposes. Taking the mean proportion of organic impurity in the Thames water delivered in London in 1868 as 1,000, I find that in the subsequent years, 1878 included, the following proportions were present :—

Year.	Proportion of organic impurity present in Thames water as delivered in London.
1868 -	1,000
1869 -	1,016
1870 -	795
1871 -	928
1872 -	1,243
1873 -	917
1874 -	933
1875 -	1,030
1876 -	903
1877 -	907
1878 -	1,056

Only once since these observations were commenced has the Thames water delivered in London been so much polluted by organic matter as during the year 1878. The Thames was often in high flood, even in summer, and much filthy matter, ordinarily retained in sewers and cesspools during the summer months, was swept into the river.

The Lea water maintained its usual pre-eminence over that abstracted from the Thames, nevertheless in June and December this water was also unsuitable for dietetic purposes. Taking, as before, the mean proportion of organic impurity in the Thames water supplied to London in 1868 as 1,000, I find in that and subsequent years, down to 1878 inclusive, the following proportion in the Lea water delivered by the New River and East London Companies :—

Year.	Proportion of organic impurity present in Lea water as delivered in London.
1868 -	484
1869 -	618
1870 -	550
1871 -	604
1872 -	819
1873 -	693
1874 -	583
1875 -	751
1876 -	562
1877 -	596
1878 -	747

The inferiority of the East London Company's water was much more marked than that of the New River Company's water.

Table E. If for the purposes of comparison, the amount of organic carbon and organic nitrogen found in the Kent Company's water, during the nine years ending December 1876, be taken as unity, this table shows the maximum, minimum, and average proportions in each of the waters supplied during the year 1878 to be as follows :—

Sources.			Maximum.	Minimum.	Average.	
Deep wells	-	Kent	-	1.8	.85	1.3
		Colne Valley	-	2.0	1.0	1.5
		Tottenham	-	1.4	.7	1.1
River Lea	-	New River	-	4.2	1.7	2.6
		East London	-	4.6	2.3	3.5
River Thames	-	Chelsea	-	5.2	2.9	4.0
		West Middlesex	-	5.9	2.9	4.2
		Southwark	-	6.3	2.7	4.3
		Grand Junction	-	7.8	3.1	4.4
		Lambeth	-	5.9	3.1	4.4



These numbers show that the river waters were, on the average, of a much lower quality than the deep well waters, which were always pure and wholesome ; and that the Thames water was much inferior to that abstracted from the Lea.

The following table exhibits the maximum amount of organic pollution in the Thames and Lea waters from 1868 to 1878 inclusive, the average of the samples from each source in the month of greatest pollution being taken for comparison.

MAXIMUM AMOUNT OF ORGANIC POLLUTION.

THAMES.			LEA.		
Year.	Elements of organic matter in parts per 100,000.	Month in which maximum pollution occurred.	Year.	Elements of organic matter in parts per 100,000.	Month in which maximum pollution occurred.
1868	·45	January.	1868	·27	February.
1869	·60	February.	1869	·33	February.
1870	·42	January.	1870	·30	January.
1871	·52	October.	1871	·22	February.
1872	·48	January & December.	1872	·39	December.
1873	·46	January.	1873	·33	January.
1874	·37	March.	1874	·21	March.
1875	·49	November.	1875	·28	November.
1876	·44	December.	1876	·24	March.
1877	·40	January.	1877	·30	January.
1878	·36	December.	1878	·26	June.

It is thus evident that although both the Thames and Lea were, on the average, much more polluted in 1878 than in 1877, they were never so intensely polluted in 1878. This is doubtless owing to the more frequent scouring out of the sources of pollution of these rivers by floods.

In reference to the organic elements in the foregoing tables, I quote the following opinion of the late Rivers Commissioners from their Report on the Domestic Water Supply of Great Britain, p. 5 :—" We consider that potable water which contains " organic matter, even only partially derived from animal sources, should not yield " much more than 0·1 part of organic carbon in 100,000 parts of water." The organic elements mentioned in the foregoing Table consisted chiefly of organic carbon ; and it will therefore be seen that the maximum pollution in the Thames greatly exceeded the standard, whilst that of the Lea was also considerably above it : indeed during the entire year 1878, the organic carbon in Thames water never fell below ·133, whilst in the case of the less polluted Lea, it only twice fell below 0·1.

Of the waters supplied from the Thames, that delivered by the Chelsea Company was the best, and that distributed by the Grand Junction Company the worst. Of the water drawn from the Lea by the New River and East London Companies, that supplied by the former was much the better.

The water drawn from deep wells by the Kent and Colne Valley Companies and by the Tottenham Local Board of Health was uniformly wholesome throughout the year and of most excellent quality for dietetic purposes.

Tables F. and G. need no comment.

Table H. gives the total weight of combined nitrogen, and this constitutes the total evidence of both past and present pollution by nitrogenous organic matter. During the spring and summer months, this combined nitrogen in river water is much diminished by animal and vegetable life then abundant in the streams, and consequently, as an indication of pollution, the combined nitrogen found during the months when vegetation is dormant should alone be taken into account. During the months of January, February, March, October, November, and December 1877, the average proportion of total combined nitrogen in 100,000 parts of Thames water was ·291 part. In January, February, March, April, November, and December 1878 it was ·270 part.



In the same quantity of water derived from the Lea it was  $\cdot 277$  part in 1877, and  $\cdot 308$  part in 1878.

The deep well water supplied by the Kent and Colne Valley Companies and by the Tottenham Local Board is unaffected by animal or vegetable life, and the average may therefore be taken on the whole year. In 1877 it was  $\cdot 458$  part, and in 1878 it was  $\cdot 446$  part in 100,000 parts of the water.

The evidence of previous animal contamination in the Thames and Lea waters is of serious importance, owing to the likelihood of morbid matter derived from animal excreta being carried down these rivers and distributed to the customers of the respective companies drawing their water from these sources. But the evidence has not the same significance in the case of deep well waters, because these have been exhaustively filtered and purified by percolation through great thicknesses of porous strata.

Table I. shows the proportion of chlorine found in the different samples submitted to analysis ; it affords no evidence that the tidal waters of the Thames or Lea had, during the year 1878, obtained entrance to the reservoirs of the water companies.

Table K. exhibits the hardness of the different waters ; that is to say, the weight of carbonate of lime, or its equivalent of other soap-destroying substances, found in 100,000 parts of water. The average hardness of the Thames water delivered in London was  $19^{\circ} \cdot 5$  or parts in 1877, and  $20^{\circ} \cdot 3$  or parts in 1878 ; of the Lea,  $20^{\circ} \cdot 0$  or parts in 1877, and  $21^{\circ} \cdot 0$  or parts in 1878 ; of the Kent Company's water,  $27^{\circ} \cdot 5$  or parts in 1877, and  $28^{\circ} \cdot 4$  or parts in 1878. Of the water supplied by the Tottenham Local Board,  $26^{\circ} \cdot 5$  or parts in 1877 and  $27^{\circ} \cdot 3$  in 1878 ; and of the Colne Valley Company's water,  $5^{\circ} \cdot 1$  or parts in 1877 and  $7^{\circ} \cdot 3$  or parts in 1878.

All the waters were therefore harder in 1878 than in 1877, and the only water delivered in London fit for washing was that of the Colne Valley Company. This water is softened by Clark's process before distribution, and is thus rendered suitable for washing, whilst its excellence for dietetic purposes is not thereby impaired.

All hard water *must* be softened before it can be used for washing linen ; when it is softened in detail by the laundress, the operation costs, for an equal volume of water, at least eighty times as much as it costs when conducted on a large scale by a water company.

Lastly, Table L. shows the annual average of each determination, and thus summarizes the average results of the analysis of the water supplied by each Company during the year.

The following table gives the results of my observations in reference to the degree of efficiency of filtration of Thames and Lea water distributed by the various Companies in 1878 :—

COMPANIES OR LOCAL AUTHORITIES.	Number of occasions when clear and transparent.	Number of occasions when slightly turbid.	Number of occasions when turbid.	Number of occasions when very turbid.
THAMES.				
Chelsea - - - -	11	1	0	0
West Middlesex - - -	11	1	0	0
Southwark - - - -	8	4	0	0
Grand Junction - - -	8	3	1	0
Lambeth - - - -	10	1	1	0
LEA.				
New River - - - -	10	2	0	0
East London - - - -	11	1	0	0
DEEP WELLS.				
Kent - - - -	12	0	0	0
Colne Valley - - - -	12	0	0	0
Tottenham Board of Health -	12	0	0	0



This table shows that during the past year no Company, drawing its supply from a river, delivered water at all times in an efficiently filtered condition ; but for the first time in ten years during which these observations have been made, the water sent out by the West Middlesex Company was slightly turbid, and that only on one occasion.

The natural filtration which the Kent, Colne Valley, and Tottenham deep well water undergoes through an enormous thickness of chalk renders artificial filtration unnecessary, and ensures the uniform clearness and transparency of the water drawn from this source.

When examined by the microscope, the sediment deposited by turbid water on standing is generally found to contain living and moving organisms. During the year 1878 these organisms were observed in the West Middlesex and Lambeth Companies water once, and in the water of the Grand Junction and Southwark Companies three times.

The annexed Table exhibits the results of microscopic examinations during the past ten years :—

Number of occasions when moving organisms were found.

	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Chelsea - -	3	2	2	3	2	5	4	4	1	0
West Middlesex -	0	0	0	0	0	0	0	0	0	1
Southwark -	8	1	4	1	2	5	5	7	5	3
Grand Junction -	4	1	1	2	3	5	7	3	3	3
Lambeth - -	5	0	4	6	3	4	5	4	1	1
New River -	0	0	0	0	1	1	0	0	1	0
East London -	4	3	3	1	0	2	0	0	0	0
Kent - -	0	0	0	0	0	0	0	0	0	0
Colne Valley -	-	-	-	-	-	-	-	-	0	0
Tottenham -	-	-	-	-	-	-	-	-	0	0

Owing to the frequent and heavy floods, the river waters were often much polluted and extremely difficult to filter, whilst the deep well waters maintained their usual brilliancy and purity.

I am, &c.

E. FRANKLAND.

The Registrar General, &c., &c.  
Somerset House, W.C.



Water Supply of the Metropolis.

TABLE A.

TEMPERATURE (in Centigrade degrees) of the METROPOLITAN WATERS, as delivered from the different Companies' Mains.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	5·3	4·8	9·0	6·7	12·6	14·0	17·8	18·8	17·0	13·3	6·5	5·8	11·0
	West Middlesex - -	5·0	5·3	9·3	7·0	14·8	15·7	20·0	19·8	19·0	15·3	6·3	4·9	11·6
	Southwark - - -	5·0	5·5	9·3	7·5	14·8	15·7	20·3	19·3	17·5	14·0	6·3	4·8	11·6
	Grand Junction - -	5·4	4·8	8·0	4·8	11·8	13·8	17·3	18·3	16·0	13·3	6·8	5·8	10·5
	Lambeth - - -	4·3	4·5	8·5	7·0	13·8	14·3	18·8	18·8	17·3	13·8	6·5	4·3	11·0
Outer Circle.	LEA.													
	New River - - -	5·0	4·3	9·3	7·0	14·0	15·3	19·8	18·3	17·8	14·0	5·8	4·8	11·3
	East London - - -	3·8	4·8	8·8	7·3	14·0	16·5	19·8	19·0	16·3	13·0	5·3	3·8	11·0
	DEEP WELLS.													
	Kent - - -	10·5	10·3	11·8	11·3	12·3	12·3	13·3	13·3	12·8	12·3	11·3	10·3	11·8
	Colne Valley - - -	8·3	7·2	9·9	8·8	11·6	11·6	13·4	13·4	13·4	11·1	10·5	8·3	10·6
	Tottenham Board of Health - - -	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE B.

WEIGHT of SOLID MATTER in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	29·84	30·84	30·36	26·74	27·50	28·22	26·88	23·84	24·70	25·90	30·38	32·20	28·12
	West Middlesex - -	30·46	31·18	29·40	25·62	29·24	27·58	26·98	26·06	26·32	28·06	31·12	31·66	28·64
	Southwark - - -	31·10	31·14	30·98	26·10	29·44	29·08	27·58	26·36	27·30	28·06	28·90	31·10	28·92
	Grand Junction - -	30·30	31·40	30·16	26·82	30·80	29·16	28·00	26·18	27·50	27·06	31·50	31·00	29·15
	Lambeth - - -	32·44	32·22	31·16	28·06	30·68	30·12	24·22	27·82	28·00	28·96	30·06	32·40	29·67
Outer Circle.	LEA.													
	New River - - -	36·78	30·90	29·34	25·12	26·78	26·56	26·36	27·18	28·30	26·60	29·10	31·08	28·17
	East London - - -	34·64	35·08	33·06	30·18	29·94	28·20	27·70	26·42	27·06	28·08	31·60	32·60	30·38
	DEEP WELLS.													
	Kent - - -	44·88	41·32	40·12	39·92	44·70	42·56	44·68	44·48	45·68	44·66	44·44	44·70	43·50
	Colne Valley - - -	12·14	13·94	12·38	13·94	14·26	20·02	16·70	19·14	21·28	12·24	13·62	15·40	15·42
	Tottenham Board of Health - - -	45·68	47·68	47·56	—	49·90	47·22	48·88	46·20	47·80	47·32	46·90	47·66	47·53

TABLE C.

ORGANIC CARBON in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	·265	·190	·183	·188	·208	·218	·190	·153	·176	·208	·220	·256	·205
	West Middlesex - -	·311	·161	·151	·142	·229	·278	·205	·150	·261	·176	·232	·291	·216
	Southwark - - -	·270	·154	·222	·176	·227	·249	·169	·133	·224	·176	·295	·329	·219
	Grand Junction - -	·325	·181	·191	·145	·226	·300	·240	·165	·220	·174	·216	·415	·233
	Lambeth - - -	·230	·169	·200	·152	·183	·296	·313	·181	·304	·169	·271	·282	·229
Outer Circle.	LEA.													
	New River - - -	·175	·108	·098	·072	·142	·217	·137	·100	·102	·108	·104	·183	·129
	East London - - -	·194	·154	·164	·128	·189	·243	·240	·144	·146	·146	·194	·229	·181
	DEEP WELLS.													
	Kent - - -	·080	·048	·050	·059	·031	·067	·078	·049	·076	·096	·059	·077	·064
	Colne Valley - - -	·051	·047	·059	·054	·040	·071	·079	·106	·055	·071	·099	·094	·069
	Tottenham Board of Health - - -	·052	·031	·040	—	·043	·061	·060	·064	·062	·065	·061	·059	·054



TABLE D.  
ORGANIC NITROGEN in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	*041	*031	*039	*036	*029	*037	*036	*021	*018	*024	*031	*031	*030
	West Middlesex - -	*040	*030	*055	*034	*049	*059	*047	*024	*046	*019	*028	*048	*039
	Southwark - - -	*034	*033	*041	*046	*056	*034	*029	*024	*033	*017	*031	*043	*035
	Grand Junction - -	*047	*050	*041	*037	*040	*028	*055	*033	*026	*021	*031	*046	*038
	Lambeth - - -	*036	*025	*051	*028	*051	*038	*037	*019	*024	*012	*027	*036	*032
Inner Circle.	LEA.													
	New River - - -	*028	*021	*023	*028	*030	*034	*019	*023	*017	*008	*017	*029	*023
	East London - - -	*038	*028	*028	*030	*042	*033	*035	*026	*029	*013	*015	*028	*027
Outer Circle.	DEEP WELLS.													
	Kent - - -	*023	*016	*014	*019	*019	*020	*014	*014	*017	*011	*003	*018	*015
	Colne Valley - - -	*015	*014	*010	*021	*024	*026	*021	*013	*016	*018	*017	*012	*017
	Tottenham Board of Health - - -	*011	*012	*016	—	*020	*020	*023	—	*012	*011	*008	*014	*014

TABLE E.

PROPORTIONAL AMOUNT of ORGANIC ELEMENTS, that in the KENT Company's Water during the last Nine Years being taken as 1.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	5·2	3·7	3·7	3·8	4·0	4·3	3·8	2·9	3·4	3·9	4·2	4·8	4·0
	West Middlesex - -	5·9	3·2	3·5	3·0	4·8	5·6	4·3	2·9	5·2	3·3	4·4	5·7	4·2
	Southwark - - -	5·2	3·2	4·4	3·8	4·8	4·4	3·3	2·7	4·3	3·3	5·5	6·3	4·3
	Grand Junction - -	6·3	3·9	3·9	3·1	4·5	5·5	5·0	3·2	4·1	3·3	4·2	7·8	4·4
	Lambeth - - -	4·5	3·3	4·2	3·1	3·9	5·6	5·9	3·4	5·3	3·1	5·1	5·3	4·4
Inner Circle.	LEA.													
	New River - - -	3·4	2·2	2·1	1·7	2·9	4·2	2·6	2·1	2·0	2·0	2·1	3·6	2·6
	East London - - -	3·9	3·1	3·2	2·7	3·9	4·3	4·6	2·9	2·9	2·3	3·5	4·3	3·5
Outer Circle.	DEEP WELLS.													
	Kent - - -	1·7	1·1	1·1	1·3	0·85	1·4	1·5	1·1	1·5	1·8	1·1	1·6	1·3
	Colne Valley - - -	1·1	1·0	1·2	1·3	1·1	1·6	1·7	2·0	1·2	1·5	1·9	1·8	1·5
	Tottenham Board of Health - - -	1·1	0·7	0·9	—	1·3	1·3	1·4	—	1·2	1·2	1·2	1·2	1·1

TABLE F.

AMMONIA in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	0	0	0	0	0	0	0	0	*001	0	0	0	0
	West Middlesex - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	Southwark - - -	0	0	0	0	0	0	0	0	0	0	*002	0	0
	Grand Junction - -	0	0	0	0	0	0	0	0	*002	0	0	0	0
	Lambeth - - -	0	0	0	0	0	0	0	0	*001	0	0	0	0
Inner Circle.	LEA.													
	New River - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
Outer Circle.	East London - - -	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEEP WELLS.													
	Kent - - -	0	0	0	0	0	0	0	0	0	0	*002	0	0
	Colne Valley - - -	0	0	0	0	0	0	0	*019	0	0	*008	*004	*002
	Tottenham Board of Health - - -	0	0	0	0	0	0	0	0	0	*005	0	0	0



TABLE G.

NITROGEN as NITRATES and NITRITES in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	*242	*273	*247	*206	*164	*105	*147	*091	*129	*090	*166	*222	*173
	West Middlesex - -	*238	*273	*232	*230	*171	*119	*105	*132	*132	*162	*145	*197	*178
	Southwark - - -	*263	*285	*212	*219	*178	*147	*140	*134	*142	*160	*144	*203	*186
	Grand Junction - -	*241	*282	*224	*201	*180	*144	*153	*146	*125	*116	*175	*189	*181
	Lambeth - - -	*291	*304	*259	*163	*215	*168	*079	*166	*164	*095	*169	*390	*205
Outer Circle.	LEA.													
	New River - - -	*393	*383	*305	*288	*212	*162	*110	*179	*167	*200	*212	*265	*239
	East London - - -	*331	*346	*280	*245	*170	*138	*103	*113	*148	*087	*167	*158	*190
	DEEP WELLS.													
	Kent - - -	*533	*578	*509	*464	*455	*474	*604	*478	*501	*430	*375	*407	*484
	Colne Valley - - -	*332	*339	*335	*336	*325	*308	*328	*326	*277	*298	*299	*220	*310
	Tottenham Board } of Health - - - }	*488	*584	*543	—	*605	*427	*535	*438	*463	*449	*386	*399	*483

TABLE H.

TOTAL combined NITROGEN in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	*283	*304	*286	*242	*193	*142	*183	*112	*148	*114	*197	*253	*204
	West Middlesex - -	*278	*303	*287	*364	*220	*178	*152	*156	*178	*181	*173	*245	*226
	Southwark - - -	*297	*318	*253	*265	*234	*181	*169	*158	*175	*177	*177	*246	*220
	Grand Junction - -	*288	*332	*265	*238	*220	*172	*208	*179	*153	*137	*206	*235	*219
Outer Circle.	Lambeth - - -	*327	*329	*310	*191	*266	*206	*116	*185	*188	*107	*196	*425	*237
	LEA.													
	New River - - -	*421	*404	*333	*316	*242	*196	*129	*202	*184	*208	*229	*294	*263
	East London - - -	*369	*374	*308	*275	*212	*171	*138	*139	*177	*100	*182	*186	*220
	DEEP WELLS.													
Outer Circle.	Kent - - -	*556	*594	*523	*483	*474	*494	*618	*492	*518	*441	*380	*425	*499
	Colne Valley - - -	*347	*353	*345	*357	*349	*334	*349	*355	*293	*316	*422	*235	*337
	Tottenham Board - -													
	of Health - - -	*499	*596	*559	—	*625	*447	*558	—	*475	*464	*394	*413	*503

TABLE I.

CHLORINE in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	1'65	1'6	1'6	1'5	1'6	1'4	1'5	1'6	1'6	1'7	1'6	1'5	1'57
	West Middlesex - -	1'65	1'65	1'55	1'6	1'5	1'4	1'5	1'5	1'6	1'6	1'7	1'5	1'56
	Southwark - - -	1'60	1'65	1'6	1'5	1'6	1'4	1'5	1'5	1'6	1'6	1'6	1'6	1'56
	Grand Junction - -	1'60	1'6	1'6	1'5	1'6	1'4	1'5	1'5	1'6	1'6	1'6	1'6	1'55
	Lambeth - - -	1'65	1'65	1'65	1'6	1'6	1'4	1'4	1'6	1'65	1'6	1'6	1'5	1'57
Outer Circle.	LEA.													
	New River - - -	1'60	1'6	1'55	1'6	1'55	1'5	1'5	1'5	1'6	1'5	1'6	1'5	1'55
	East London - - -	2'00	1'9	1'9	1'8	1'85	1'8	1'6	1'7	1'8	1'6	1'9	1'8	1'80
	DEEP WELLS.													
Outer Circle.	Kent - - -	2'55	2'5	2'5	2'5	2'45	2'5	2'6	2'5	2'6	2'5	2'5	2'5	2'51
	Colne Valley - - -	1'35	1'45	1'4	1'4	1'4	1'4	1'5	1'5	1'4	1'4	1'4	1'4	1'41
	Tottenham Board													
	of Health - - -	3'40	3'4	3'5	—	3'6	3'5	3'4	3'2	3'4	3'3	3'3	3'3	3'39



TABLE K.

DEGREES of HARDNESS (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1878.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Chelsea - - -	20·6	21·2	21·8	20·6	19·7	18·8	19·1	19·4	18·3	18·9	21·2	21·2	20·0
	West Middlesex - -	20·3	22·1	20·3	21·2	20·5	19·4	19·7	19·7	18·0	19·1	21·2	21·5	20·2
	Southwark - - -	21·8	22·2	21·3	20·6	20·0	20·6	19·4	20·6	18·6	20·6	20·3	20·6	20·5
	Grand Junction - -	20·1	22·2	20·9	20·6	20·0	19·7	18·5	20·6	18·0	19·4	22·1	21·2	20·2
	Lambeth - - -	22·8	22·2	21·2	20·6	20·0	20·6	17·7	20·3	18·6	20·6	21·2	22·1	20·6
	LEA.													
	New River - - -	22·4	22·4	21·5	20·0	19·1	19·4	19·1	20·9	19·0	20·6	21·2	21·8	20·6
	East London - - -	23·9	24·0	22·4	21·2	20·9	20·8	20·3	20·9	17·7	19·4	21·8	22·4	21·3
Outer Circle.	DEEP WELLS.													
	Kent - - -	29·4	28·1	26·9	27·8	28·1	27·5	29·0	28·1	28·4	29·7	28·4	29·6	28·4
	Colne Valley - - -	4·8	6·4	5·3	6·7	6·7	12·3	8·4	12·1	6·0	5·3	6·3	7·4	7·3
	Tottenham Board of Health - - -	26·5	25·0	26·1	—	27·9	27·8	30·0	27·2	29·3	27·9	27·2	25·7	27·3

TABLE L.

AVERAGES FOR 1878.

The numbers in this Table relate to 100,000 parts of the Waters.

COMPANIES OR LOCAL AUTHORITIES.		Temperature in Cen- tigrade Degrees.	Total Solid Matters.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Ni- trogen.	Chlorine.	Total Hardness.	Proportional Amount of organic Elements, that in the Kent Company's Water during the 9 years ended Dec. 1876 being taken as 1.
Inner Circle.	THAMES.	°									
	Chelsea - - -	11·0	28·12	·205	·030	0	·173	·204	1·57	20·0	4·0
	West Middlesex - -	11·6	28·64	·216	·039	0	·178	·226	1·56	20·2	4·2
	Southwark - - -	11·6	28·92	·219	·035	0	·186	·220	1·56	20·5	4·3
	Grand Junction - -	10·5	29·15	·233	·038	0	·181	·219	1·55	20·2	4·4
	Lambeth - - -	11·0	29·67	·229	·032	0	·205	·237	1·57	20·6	4·4
Outer Circle.	LEA.										
	New River - - -	11·3	28·17	·129	·023	0	·239	·263	1·55	20·6	2·6
	East London - - -	11·0	30·38	·181	·027	0	·190	·220	1·80	21·3	3·5
	DEEP WELLS.										
	Kent - - -	11·8	43·50	·064	·015	0	·484	·499	2·51	28·4	1·3
	Colne Valley - - -	10·6	15·42	·069	·017	·002	·310	·337	1·41	7·3	1·5
Outer Circle.	Tottenham Board of Health - - -	—	47·53	·054	·014	0	·483	·503	3·39	27·3	1·1



FIRES IN LONDON DURING THE YEAR 1878.

Captain Eyre M. Shaw, Chief Officer of the Metropolitan Fire Brigade, reported to the Metropolitan Board of Works that the number of fires attended during 1878 was 1659, showing an increase of 126 upon the number in the preceding year, and being 26 above the average in the ten years 1868-77. Ten per cent. of the fires attended in 1878 were described as serious, corresponding with the proportion in the previous year. Life was seriously endangered at 88 of the fires in 1878, and in 22 cases life was lost. The lives of 151 persons were seriously endangered, of which 126 were saved and 25 lost. The numbers of lives lost by fires in London in the three preceding years were 29, 35, and 29 respectively.

The establishment of the Metropolitan Fire Brigade at the end of the year was distributed at 50 engine, 109 escape, and 4 floating stations. The number of fire engines at these stations was 140, showing an increase of 2 upon the number in the previous year; 3 were floating steam engines, 29 land steam engines, and 108 manual engines. The number of fire escapes and long scaling ladders was 125, showing a decrease of 16 from the numbers in the preceding year. The strength of the brigade was 420 of all ranks, including the chief officer and the superintendents, and exceeded by 14 the strength in the previous year. The number of firemen employed on the several watches kept up throughout the Metropolis was 91 by day and 168 by night. The cases of injury occurring in the brigade during the year were 83, against 90 in 1877.

The quantity of water used for extinguishing fires during 1878 was rather more than 19 $\frac{1}{4}$  million gallons, or about 85,000 tons; about two-fifths of this quantity was taken from the river, canals, and docks, and the remainder from the street pipes.

During the year there were 8 cases of short supply of water, 30 of late attendance of turncocks, and 18 of no such attendance, making 56 cases in which the water arrangements were unsatisfactory, against 40 and 51 in the two preceding years.

**Number of Fires and of False Alarms** attended during the Eleven Years 1868-78, and in each Month of 1878.

YEARS AND MONTHS.	TOTAL CALLS.	FIRES.			ALARMS.		
		Serious.	Slight.	Total.	False.	Chimney.	Total.
1868 - - -	—	235	1433	1668	—	—	—
1869 - - -	—	199	1373	1572	—	—	—
1870 - - -	2188	276	1670	1946	133	109	242
1871 - - -	2046	207	1635	1842	124	80	204
1872 - - -	1671	120	1374	1494	104	73	177
1873 - - -	1703	166	1382	1548	83	72	155
1874 - - -	1750	154	1419	1573	89	88	177
1875 - - -	1668	163	1366	1529	90	49	139
1876 - - -	1787	166	1466	1632	91	64	155
1877 - - -	1708	159	1374	1533	106	69	175
1878 - - -	1881	170	1489	1659	121	101	222
1878. { January - - - February - - - March - - - April - - - May - - - June - - - July - - - August - - - September - - - October - - - November - - - December - - -	202 166 193 143 146 160 149 149 130 133 145 165	15 11 11 22 12 16 22 19 12 14 7 9	161 133 158 108 123 125 119 111 102 101 113 135	176 144 169 130 135 141 141 130 114 115 120 144	11 5 9 4 6 15 7 18 13 10 13 10	15 17 15 9 5 4 1 1 3 8 12 11	26 22 24 13 11 19 8 19 16 18 25 21







